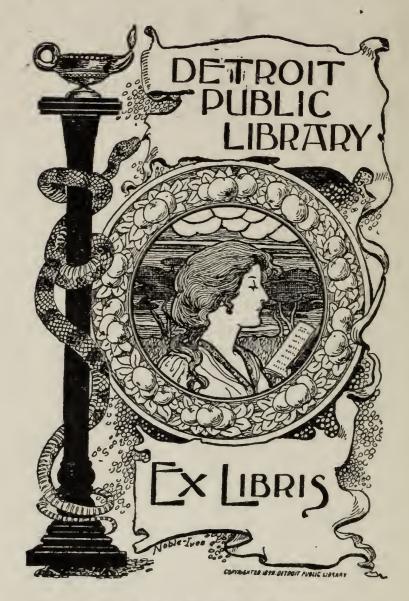


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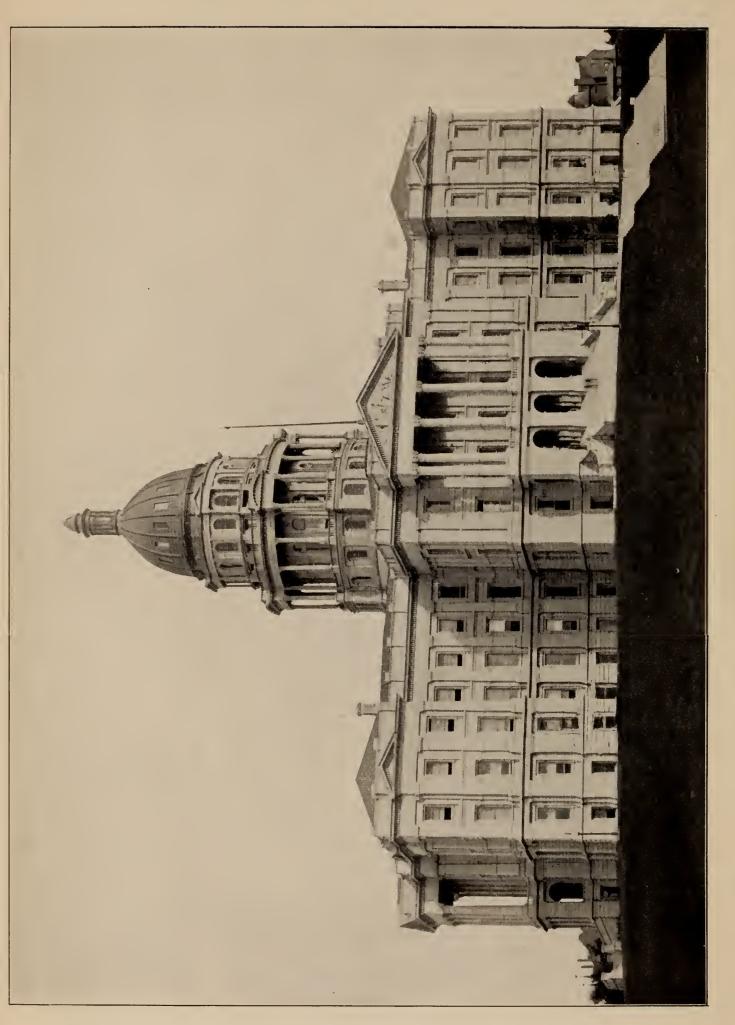
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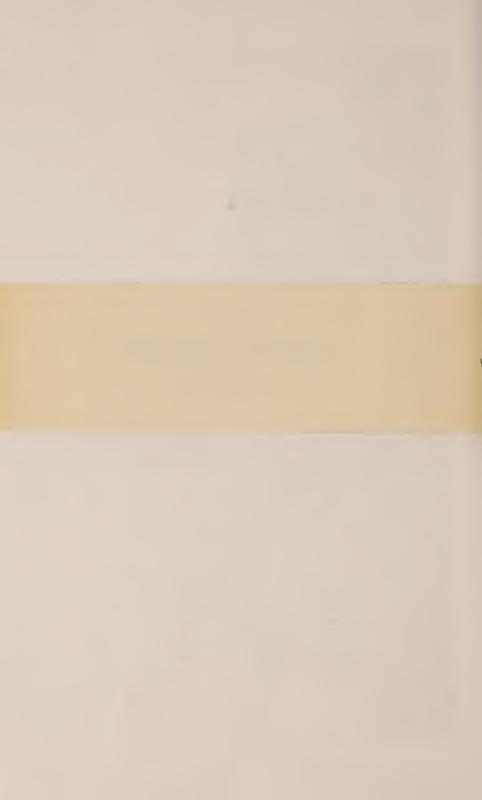
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## EDWIN V. BRAKE

Deputy Labor Commissioner Colorado



### Thirteenth Biennial Report

OF THE

# Bureau of Labor Statistics

OF THE

State of Colorado

1911-1912

JAMES B. PEARCE, Secretary of State, Commissioner ex officio EDWIN V. BRAKE, Deputy Commissioner and Chief Factory Inspector



DENVER, COLORADO
THE SMITH-BROOKS PRINTING CO., STATE PRINTERS
1913



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JAMES B. PEARCE Secretary of State and Ex Officio Labor Commissioner



### LETTER OF TRANSMITTAL

To His Excellency,
ELIAS M. AMMONS,
Governor of Colorado.

Sir: I herewith submit for your consideration the thirteenth biennial report of the Bureau of Statistics.

The State Department of Factory Inspection, the state free employment offices, and the duty of licensing and supervising the operation of the private employment offices of the state, together with the enforcement of laws made to protect the interests of the wage-earners, comprise the duties of this department. A full report upon the work accomplished by these departments is here submitted.

The law requires that this report be limited to 300 pages. I have had to abbreviate reports upon all departments to come within this limit.

Respectfully submitted,

EDWIN V. BRAKE,

Deputy Labor Commissioner and Chief Factory Inspector.

### PERSONNEL OF THE DEPARTMENT

BUREAU OF STATISTICS

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Secretary of State, Commissioner ex officio
Edwin V. Brake,
Deputy Labor Commissioner and Chief Factory Inspector

RICHARD E. CROSKEY, Statistician GRACE HARPER, Stenographer

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Deputy Factory Inspector
Frederick Weinland,
Deputy Factory Inspector
George R. Howe,
Deputy Factory Inspector
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Deputy Factory Inspector
James McDowd,
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Stenographer

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Assistant Superintendent Office No. 1, Denver
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Superintendent Office No. 2, Denver

Mrs. Mary E. Hobbs, Assistant Superintendent Office No. 2, Denver

> LEE A. TANQUARY, Superintendent Pueblo Office

ELIAS ANDERSON,
Assistant Superintendent Pueblo Office
WILLIAM C. DAILY,

Superintendent Colorado Springs Office
George Bainter,

Assistant Superintendent Colorado Springs Office

PRIVATE EMPLOYMENT OFFICES

Frank Mancini, Collector of Licenses and Supervisor

### Thirteenth Biennial Report

of the

# Bureau of Labor Statistics

of the

### State of Colorado

### CHAPTER I

# REVIEW OF WORK DONE BY THE DEPARTMENT AND RECOMMENDATIONS

By Edwin V. Brake, Deputy Labor Commissioner and Chief Factory Inspector

### CREATION OF THE BUREAU AND ADDITIONS THERETO

The department of the Bureau of Labor Statistics was established in Colorado by the legislature of 1887. The Secretary of State was designated Labor Commissioner ex officio, with authority to appoint a Deputy Commissioner who shall have charge of the department and be its executive head.

The law provides that the Deputy Commissioner shall gather statistics on thirteen different subjects, namely:

First—Agriculturee.

Second—Mining.

Third—Mechanical and manufacturing industries.

Fourth—Transportation.

Fifth—Clerical, and all other skilled and unskilled labor not above mentioned.

Sixth—The amount of cash capital invested in lands, buildings, and machinery severally, and means of production and distribution generally.

Seventh—The number, age, sex, and condition of persons employed; the nature of their employment; the extent to which the apprenticeship system prevails in the various skilled in-

dustries; the number of hours of labor per day; the average length of time employed per annum, and the net wages received in each of the industries and employments within the state.

Eighth—The number and condition of the unemployed; their age, sex, and nationality; together with the cause of their idleness.

Ninth—The sanitary condition of lands, workshops, dwellings; the number and size of rooms occupied by the workers, etc.; the cost of fuel, rent, food, clothing, and water in each locality of the state; also the extent to which labor-saving processes are employed to the displacement of hand labor.

Tenth—The number and condition of the Chinese in the state; their social and sanitary habits; the number of married and of single; the number of employed and the nature of their employment; the average wages per day at each employment, and the gross amount yearly; the amount expended by them in rent, food, and clothing, and in what proportion such amounts are expended for foreign and home productions, respectively; and to what extent their labor comes in competition with other industrial classes of the state.

Eleventh—The number, condition, and nature of the employment of the inmates of the state prison, county jails, and reformatory institutions, and to what extent their employment comes in competition with the labor of mechanics, artisans, and laborers outside of these institutions.

Twelfth—All such information in relation to labor as the Commissioner may deem essential to further the objects sought to be obtained by this statute.

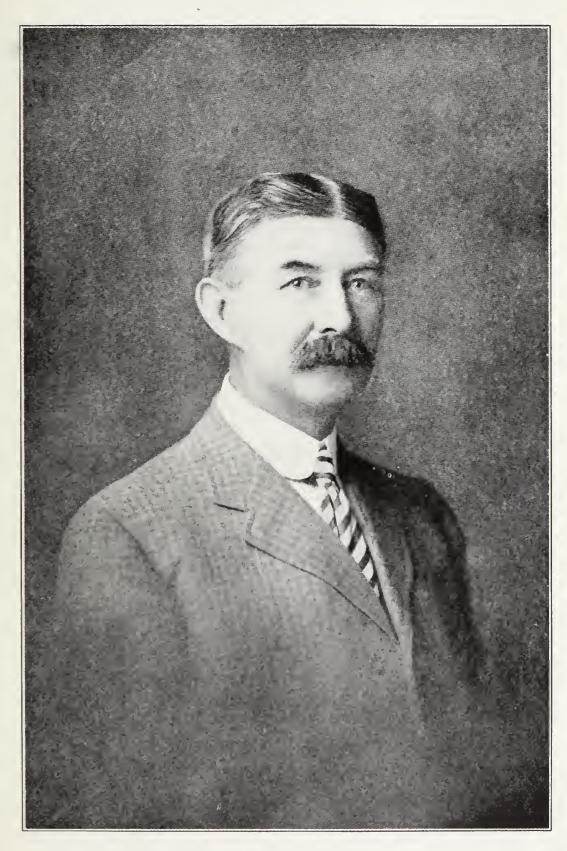
Thirteenth—A description of the different kinds of labor organizations in existence in the state, and what they accomplish in favor of the class for which they were organized.

### BUREAU OF STATISTICS

The Bureau of Labor Statistics proper has charge of the statistical work, and is composed of myself as Deputy Labor Commissioner, a statistician, and a stenographer. This department is not only charged with the collection of statistics, but also with the enforcement of all laws upon the statute-books in Colorado passed for the benefit and protection of the wage-earners. I will quote you the law imposing its duty upon the Deputy Labor Commissioner:

"It shall be the duty of the Deputy Labor Commissioner to cause to be enforced all laws regulating the employment of men, minors and women, all laws for the protection of the health, lives and limbs of all operators in factories, mills, mines, workshops, offices, bakeries, laundries, stores, hotels, railroads, or any public or private works where labor is employed or machinery used, and all laws enacted for the protection of wage-earners."

This alone if properly attended to, would require at least four special in spectors; and we have none in this bureau. The



EDWIN V. BRAKE Deputy Labor Commissioner



correspondence that comes to the Bureau of Labor Statistics covers the widest possible range of subjects. Hundreds of letters of inquiry from within and without the state are being handled by the statistician and stenographer. Not only inquiries concerning the resources of the state are received, but such other subjects are handled by the bureau that I have become convinced that the reputation established by this bureau throughout the United States for general knowledge on economic questions has induced a great many of the colleges, civic bodies, and, in fact, all of the advanced thinkers of the country to inquire of this department concerning the live issues of the day. This alone requires almost all of the time of the statistician that he can possibly take from his statistical work. To the stenographer in this department has been assigned the duty of issuing all licenses for private employment agencies, keeping the records, and exercising a general supervision over that department. In addition to this work, the stenographer has had charge of the collection department. While it is true that there is no special statute in the law above quoted requiring this department to look after the collection of wages, the department has assumed that extra work. This not only entails an extra amount of work, but is one of the meritorious things that the department is called upon to perform. Our object is to secure through the free employment offices employment for the unemployed, and where any controversy over wages has arisen, we have assumed the obligation of acting in the capacity of arbitrator to settle such dispute.

To give you some idea of the immense amount of work of this stenographer in the Bureau of Labor Statistics, I wish to call your attention to the following: There is no law requiring the department to collect wages for the workers from would-be "deadbeat" employers, but 1.546 such claims were taken care of, and \$45,620.83 was collected and turned over to the wage-earners without a cent of cost to them. This was all extra work. When you take into consideration the large sum that has been collected by this department, and when you consider that these collections, mostly in very small sums, were made for people who were absolutely penniless and unable to bring suit in the courts, you must appreciate the magnitude of the work, as well as the good that has accrued to the poor, uneducated wage-earners, who were unable to get the proper redress that is afforded by the courts.

Thousands of letters, accompanied by schedules, have been mailed to the manufacturing merchants, county assessors, and labor organizations throughout the state, for the purpose of gathering statistics that would be of value to the entire state. We have been seriously handicapped in the statistical work, for the reason that large numbers of people receiving these letters and schedules pay no attention whatever to filling out and returning them, notwithstanding that we had taken the precaution to enclose a return envelope stamped.

I have asked, in House Bill No. 33, by Mr. Leftwich, for an assistant to this department, at a salary of \$1,500 per annum, with \$350 a year traveling expenses; also \$350 a year traveling expenses for the statistician. This small annual sum is insignificant to the State of Colorado when compared with the good results that we could have, were we provided with the assistant and the traveling-expense money. At the present time there is no one except myself who can go outside of the city of Denver to assist in the enforcement of the laws, or to settle a labor dispute, or for statistical purposes, or for anything connected with the department. I find that my time is entirely taken up as executive head of the department, by giving it my personal supervision in the office. There are now seventeen employes in the various branches of this bureau, covering six different departments, and in order to properly attend to these duties, it is impossible for me to leave the city for any great length of time.

### FACTORY INSPECTION

The Factory Inspection Department consists of four deputy factory inspectors, a stenographer and clerk. During the past sixteen months the four inspectors inspected 5,371 establishments. employing 62,538 people. A total of 3,241 inspection orders were issued for safety guards around machinery, sanitary improvements, and fire escapes. Each of these orders contained recommendations for a great many improvements. Supplementary inspections are made to see that the orders have been complied with. This places an immense amount of work upon four people, and scattered all over the entire State of Colorado. After an order has been issued, objections sometimes occur, and numerous letters have been exchanged before the orders have been complied with. This entails an immense amount of office work. It would be a physical impossibility for any one person, however competent, to handle the factory-inspection desk alone, but with the assistance of a stenographer the work is kept in good shape. In this department, as well as in all the branches of the Labor Bureau, everything is card-indexed, a record is kept of each and every transaction, and all correspondence is indexed and filed, so that upon five minutes' notice the clerks in charge of the office can give you the results of any investigation or any complaint that has been lodged in the department for the past four years.

### CHILD LABOR

In addition to the duties imposed upon the factory inspectors, two years ago the legislature passed a child-labor law, especially designating the Factory Inspection Department as the one department in the state to look after the enforcement of the law. This has entailed a great deal of extra work in addition to the regular duties. We have acted upon hundreds of complaints. This requires time and expense, and I feel warranted in saying that in no place in America has the employment of children been

better safeguarded than in this state. We have compelled messenger-service companies to quit sending children to resorts with messages; we have stopped the custom of children serving liquors; and after we have done such splendid work in co-operation with the juvenile courts and school authorities, we feel warranted in saying that this state at the present time has the question of child labor under absolute control.

### WOMAN'S EIGHT-HOUR LAW

There was a popular demand for years for the passage of a woman's eight-hour law. The best proof of this assertion was the fact that the initiated law was carried by 76,000 majority. The enforcement of this law depends almost entirely upon the efforts put forth by this department. While it is true that any individual can make a complaint to the district attorneys, yet I have found that no law of any kind or character can be enforced unless some special effort is put forth to secure evidence and make an investigation, and assist the district attorneys in every way possible. The Factory Inspection Department is the only means we have of enforcing this law. Hundreds of complaints have been filed in this office, alleging that different employers are violating the law. Each and every one of these complaints must be investigated, and it has to be done through the deputy factory inspectors, as they are the only inspectors that we have in this entire department.

Numerous complaints are constantly being made to this department concerning violations of the municipal eight-hour laws in the various towns and cities of this state; also complaints from miners as to the violation of the law giving them a check weighman. Complaints are being made almost daily that scales are not correct; that men are being peoned or coerced in different sections of the state. All of these various complaints have to be handled by the deputy factory inspectors, except in Denver, Colorado Springs, and Pueblo, where a great deal of this work is done by the superintendents and assistant superintendents of the free employment offices. In order to properly look after the interests of the wage-earners of Colorado, we could use to good advantage at least a dozen inspectors.

### FREE EMPLOYMENT OFFICES

One of the most efficient and beneficial branches of the Labor Department is the free employment offices. For years labor organizations, woman's clubs, and all those interested in economic conditions tried to get through the legislature a bill creating the free employment bureaus; with no result, however, until six years ago, when I succeeded in getting the law passed that is now on the statute-books. That law provides for two offices in Denver and one each in cities of a population of 25.000 or over. During the first two years of the operation of this law the offices in Pueblo and Denver were not as efficient as they should be, owing principally to the fact that the men in charge were given the position

purely from a political standpoint and were not in sympathy with the purpose for which the offices had been created. The Colorado Springs office under Wesley Nethers was a success from the start, because he took a deep interest in the matter and the result of his work has been of material benefit to all of his successors.

I believe that it is wrong in principal to compel a man or woman to pay for a job; it should be the duty of the state to bring employer and employee together without any cost to either. No man or woman is entitled to a living unless they are willing to work for it, but they should not be compelled to pay an exorbitant, or any price in fact, for work. It is the duty of the state to see that they are provided with employment. As an illustration of the efficiency of this branch of the Bureau of Labor Statistics, I desire to submit some figures: For the past two years 30,787 positions were furnished free of charge to wage-earners, 21,652 were men, 9,135 women, or an average of 15,394 for each year of 1911 and 1912. In my judgment, we can increase the number of positions secured fully 50 per cent in Pueblo and Colorado Springs, provided we had a small amount for advertising as the law pro vides. In Denver we can increase the number of positions secured 200 per cent, provided House Bill No. 32, now in the Senate, is passed.

The difficulty heretofore has been that with one office in Denver, and without sufficient appropriation to pay a reasonable rent in a good locality, we have been compelled to try and maintain the office in the second story of the Railroad Building on Larimer street. This location is too far up-town to come in contact with the common laborers and is too far down-town to handle the woman wage-earner. By the establishment of two offices, one on Market street and the other up-town, we will be able to serve both classes and I feel assured that it is conservative to say that we can increase fully 200 per cent.

The superintendents and assistant superintendents of the free employment offices, aside from the duties prescribed by the statute, have very willingly given their time to help in other branches of the Labor Department; not only have they secured positions for the unemployed, but they have assisted in the collection of wages and in the enforcement of the laws that have been passed for the protection of the wage-earner.

It may not be out of place to make a comparison between the three Colorado free employment offices and the five in the state of Connecticut for the year 1910; the three offices in Colorado during 1910 furnished employment to 18,865, and the five offices in Connecticut in a thickly populated community, where there is access to thousands of manufacturing establishments, secured positions for 8,126. With exception of Seattle, Washington, the United States reports on free employment offices show that Colorado, though sparsely settled, with few manufacturing establishments, stands at the head of the list for number of positions secured and

general efficiency. Any effort to curtail or hamper in any manner the work of this branch of the Bureau of Labor Statistics is unwarranted and will be a step backwards, because it is generally conceded by all students that these free employment offices should be maintained and strengthened in every way possible with the ultimate object of finally putting the private employment offices out of business, purely upon the ground that it is wrong in principle and unfair to require any wage-earner to pay for an opportunity to work.

### PRIVATE EMPLOYMENT OFFICE SUPERVISION

The private employment agencies are required, under the law, to take out a license through this bureau and give a bond for the faithful compliance to the statute. This branch of the Labor Department is one of the prides of the service; more good has been accomplished for the wage-earner by the control of private employment agencies than we have time or space to enumerate. a common occurrence in the past to charge men exorbitant prices for a position and in numerous cases charged them exorbitant prices for positions that they never got; men were shipped a long distance from Denver and Colorado, who, upon arriving at their destination, found that they had been robbed of their money and time and no job awaited them. This no longer exists. For the past four years this branch of the Labor Department has been as efficient as is possible to make it. The principle of charging men large fees for securing employment has been discontinued, the principle of sending men to remote sections of the country, when there was no position for them, has ceased to exist. I might recite numerous instances where this department has compelled private employment agents to reimburse applicants for work, not only for office fee and railroad fare, but the time spent coming and going. Only in the last year, as one illustration in point, an employment agent sent twenty-six Italians to Needles, California; the men arrived stranded, without any place to eat or sleep and no job. This department took up the matter and compelled the employment agent to telegraph money to maintain these people and to secure them positions, which was done in a very short time. Numerous conditions of this kind occur almost weekly, and if anyone would take the time to inquire of the district attorney's office or the police department of Denver, they will find that the complaints against the private employment agents have been reduced to the minimum.

When this law went into effect I found a great many men engaged in the business who could not be straight under any circumstances; they are no longer engaged in the business. The Deputy Labor Commissioner has the authority, under the law, to revoke licenses and we have availed ourselves of the law in every case where we found that the agent was doing an illegal business. As long as private employment agencies are allowed to exist they

must be under the supervision of some one in order to make them comply with the laws. During the past four years numerous suits have been brought for the violation of the law, and convictions made so that we feel perfectly satisfied that everything that is possible under the law has been done to safeguard the interests of the wage-earners. The sixth branch of this department—the information bureau—should be provided with at least one regular clerk. This work is being done by the statistician and stenographer in addition to their other duties.

### COST OF THE DEPARTMENT

The Eighteenth General Assembly placed the Factory Inspection Department on the payroll of the state, abolishing the fee system upon which, prior to August, 1911, it had been maintained. With the appropriation for this department of factory inspection, the Bureau of Statistics and free employment offices combined, the Eighteenth General Assembly appropriated for the maintenance and salaries of the departments for the biennial period the sum of \$45,600. With the closest economy practiced in the running of the various departments, the sum of \$35,778.80 was used in the biennial period, thus returning to the state treasury the sum of \$9,821.20. With this record I do not believe that the Department of Labor of Colorado can be justly accused of an extravagant use of public funds.

### CHAPTER II

### FACTORY INSPECTION DEPARTMENT REPORT

This report covers the period from August 4, 1911, when the amended law, abolishing fees charged for inspection of premises and providing an appropriation from state funds for the payment of the expenses of the department, went into effect, up to the end of the fiscal year 1912, November 30, a period of approximately sixteen months.

The amended law reduced the number of deputy inspectors from six to four, and during the sixteen months cited, these four deputy inspectors inspected 5.371 establishments, employing 62,538 people, and issued 3,245 orders and recommendations for safety-guards on machines, and other improvements, as follows:

Safety guards on and around machinery	, 006
Guard rails around machinery, stairs and openings	821
Fire escapes, new and improvements on old	52
Sanitary regulations, new toilets, etc	243
Safety and sanitary repairs and improvements	157
Separate dressing rooms for male and female	11
Seats for women working in stores	11
Hotels—install red lights, rope fire escapes, provide 9-foot top sheets,	
and individual towels	941

3, 245

The larger portion of these orders have been complied with, and daily the bureau is apprised of the fact that others have complied with the suggestions, recommendations and orders of the inspectors; a reasonable amount of time is allowed the various establishments to comply with the orders given, when, if such notification is not received, a return visit is made by the inspector to ascertain the reason of the non-compliance with the order given. There are, as might be expected, some proprietors of establishments who object to providing safety devices for their machinery or maintaining sanitary conditions in their workshops, but these are few, and usually the places that require the operation of the factory inspection law the most. As a general rule the proprietors or managers of the manufacturing and mercantile establishments welcome the inspection of their premises and readily comply with the suggestions or orders given by the inspectors. The opposition to the law that formerly existed was caused by the imposition of the inspection fee. With the elimination of this feature by the Eighteenth General Assembly there now exists but little opposition to the law. It is generally recognized as a necessary and humane law, protecting the wage-earners and general public. The number of employes working around machinery that it has protected from injury or death will, of course, never be known, and likewise the same can be said of the number of the general public whose health is being protected by the enforcement of proper sanitary regulations in hotels, bakeries, and surrounding the preparation of foodstuffs.

In amending the law the Eighteenth General Assembly added to it more stringent sanitary regulations and better protection from fire for hotel guests. The installing of 9-foot top-sheets on all beds; the abolishment of the roller towels in all wash rooms, and the placing of individual towels in these places; and, for the protection from fire, the installing of a hemp rope in each room, the same to be firmly attached to the wall in such manner that it may be thrown out of the window to allow persons to escape in case of fire, the same to apply to all hotels and boarding and bunkhouses of more than two stories in height; and that red lights shall be displayed with the words "Fire Escape" on the globes at each fire escape. A total of 941 notices and orders were issued to hotel and boarding-house keepers to install these devices and sanitary regulations. Several hotels have protested against installing all of the articles named, claiming that they were not necessary, etc. At the same time they have complied in part with the orders given. It is recognized that the installing of all requirements of the law in these matters is sometimes costly, and that time should be allowed, consistent with the proper protection of the citizens and guests of the state, for the strict compliance by the hotel proprietors with the orders given. There is little trouble with the newly constructed or fitted hotels, as they are generally fitted with all requirements of the law in the matter of safety and sanitary regulations.

The total appropriation made by the legislature to support the Department of Factory Inspection for the sixteen months reported on was \$13,720.02, of which \$12,002.69 was used, returning to the state treasury \$1,717.33. The deputy inspectors receive \$1,200 yearly salary, and an additional \$600 is allowed for necessary traveling expenses. A salary of \$1,200 per annum is allowed for a clerk and stenographer each, and \$500 per annum for office supplies, postage, etc.

The amounts drawn by deputies and clerks in the sixteen months were:

\$13,720.02

Genevieve Miles, deputy inspector	1,715.97	
Frederick Weinland, deputy inspector	2,169.17	
George R. Howe, deputy inspector	2,140.63	
Leroy Monical, deputy inspector	2,057.35	
Frank Mancini, clerk	1,586.67	
Charlotte M. Fry, stenographer	1,586.67	
Office expenses, stamps, stationery, etc	746.23	
Total		\$12,002.69
Returned to treasury		1,717.33

Additional duties were placed upon the factory inspectors by the passage by the Eighteenth General Assembly of the childlabor law. Section 2 of this act requires that "The State Inspector of Factories, his assistants or deputies, shall visit all mercantile institutions, stores, offices, laundries, manufacturing establishments, bowling alleys, theatres, concert halls or places of amusements, factories or workshops, and all other places where minors are or may be employed in this state, and ascertain whether any minors are employed contrary to the provisions of this act. Inspectors of factories may require that age and school certificates, and all lists of minors employed in such factories, workshops, mercantile institutions, and all other places where minors are employed, as provided for in this act, shall be produced for their inspection on demand. And, provided further. that upon written complaint to the school board or local school anthorities of any city, town, district or municipality, that any minor (whose name shall be given in such complaint) is employed in any mercantile institution, store, office, laundry, manufacturing establishment, bowling alley, theatre, concert hall or place of amusement, passenger or freight elevator, factory or workshop. or as messenger or driver thereof, contrary to the provisions of this act, it shall be the duty of such school board or local school authority to report the same to the State Inspector of Factories."

The law also requires that all permits issued to children under age shall be reported to the State Factory Inspector, the number of permits so reported to this office since the operation of this act, is 1.155. This, however, is far in excess of the number of children that had permits to work, as a large number of the permits issued were duplicates issued to the same boy or girl when changing their employers. The record follows:

Number of permits issued in the state, 1.155.

	Employ	ed Steadily		Employed A	After School	ol
City	Boys	Girls	Ages	Boys	Girls	Ages
Denver	417	• 213	14-16	453	32	13-15
Colorado Springs.	19	õ	14-16	1	• •	
Pueblo	12	4	14-16	• •	• •	• • • •
Trinidad	8	1	14-16			

From this report it will be seen that of all the cities in the state Denver alone is the only one that is thoroughly taken care of in the matter of child labor. The other cities of the state, with the possible exception of Colorado Springs, are either lax on the part of the school authorities in issuing certificates, or that no certificates are issued at all. The reason for this is the fact that the school authorities of Denver have provided truant officers to watch for children working without permits, while in other parts of the state they appear to take no notice of it. possible for the factory inspectors to watch this matter exclusively, and their duties take them in all parts of the state, and by reason of the large territory that the four deputy inspectors have to cover it is physically impossible for them to visit one locality more than once or twice a year and attend to their other The child-labor law, as introduced in the Eighteenth General Assembly, provided for an inspector whose duty it should be to attend to this work exclusively, and for the proper enforcement of this law one such inspector is urgently needed that the law may be as well enforced in the other sections of the state as it is by both the school authorities, the officer of the juvenile court, and the factory inspectors in Denver. This state has not been cursed to any great extent with the problem of child labor, and it is well for the welfare and reputation of the great state of Colorado that it should never be allowed to take root in its soil. My deputy inspectors have effectually stopped child labor when and wherever they have found it, and when cases have been brought to the attention of the office they have been promptly attended to either by my deputies or myself and office force.

A comparison between the United States Government report on the number of manufacturing establishments in the state and the number of their officers and employes shows that in 1909, the time the last census was taken, there were 2,038 factories doing business in Colorado, as against 2,082 found and inspected by the State Factory Inspectors in 1911-1912, a gain of 44 establishments; the number of employes or persons engaged in factories in 1909 was 34,115, the number reported by the state inspectors in 1911-1912 is 38,443, a gain of 4,328 employes.

The percentage of gain in the three years is fully up to that reported by the government census officers for like periods in the state's history, which in itself, is proof of the efficient work done

by the state inspectors, and it should be remembered, there are some localities of the state, though small isolated places, that it was not possible in the sixteen months reported upon, for the state inspectors to reach.

As far as possible the Bureau of Statistics has tried to obtain the amount of capital invested, amount produced and all other matters touched upon by the United States Government enumerators. With this in view, some 6,000 manufacturing and mercantile schedules were sent to the manufacturers of the state in whole, and the mercantile establishments in part, requesting this information and also the amount of wages paid the different employes, but from the insufficient manner in which these schedules were returned it has been found impossible to get the information desired, and the only way that this work can be accurately done is by a personal visit by an officer of the bureau to the establishments, and this there is no provision in the law creating the bureau for funds to do. Some traveling expenses should be allowed the statistician, that he may by personal visit gain the information so much desired by the commercial bodies of the state. The amount of wages paid employes in the different branches has been ascertained in a reasonable degree of accuracy and these are so given. Denver, comprising one-third of the state, is given in detail in the report on the manufacturing and mercantile establishments, hotels, and laundries of the state in the cities and towns here presented.

# DENVER MANUFACTURING

		Empl	loyees	Male	le	Wages		Female		Hc	Hours
Establishments	No.	Male	Female	Highest Lowest	Lowest	Ауегаве	Highest	Lowest	Average	Male	Female
Auto companies	25	181	13	\$7.50	\$. S5	\$3.00	•	•		6	:
Asbestos works ,	<b>—</b>	<del>- 1</del> 1	:	•	•	•	•	•	•	:	:
Artificial limbs	1	4	:	:	:	•	:	*	:	:	:
Arc light companies	1	ra	:	• • •	:	•	•	•	:	:	: 1
Art glass companies	***	36	:	:	:	:	:	•	:	:	:
Brewing companies	4	225	•	5.75	2.90	3.35	:	•	•	81/2	:
Bottling works	18	202	13	. 4.00	2.00	2.75	•	•	•	6	•
Bakeries	22	286	128	2.00	1.66	2.66	\$1.25	æ. 15.	\$1.00	6	6
Bedding companies	4	28	31	3.00	.50	2.25	1.50	1.25	1.66	o,	6
Brick companies	ro	121	:	5.00	2.90	3.56	:	:	:	81/2.	:
Broom companies	63	24	П	1.75	1.00	1.75	1.00	1.00	1.00	6	81/2
Brass works	4	35	:	3.50	2.00	2.95	•	:	•	6	:
Brush companies		೯೦	П	* * *	:	•	•	•	:	:	:
Bicycle shops	11	22	:	:	•	•	:	•	:	:	:
Box companies	9	44	55	:	•	•	•	•	•	:	:
Blacksmith shops	n.	16	÷	•	:	* * *	:	:	•	•	•
Cigar companies	13	194	99	6.00	2.00	3.50	1.25	1.25	1.25	∞	∞
Confectionery companies	17	227	113	4.00	.75	2.50	2.00	09.	1.30	10	10
Cleaning companies	14	999	23	5.00	.40	2.25	2.00	1.00	1.50	81/2	∞
Greamery companies	6	83	50	3.00	2.00	3.00	2.50	1.00	1.75	C	∞

Coffee and spice companies 3	17	C-	:	•	:	:	:		:	:
Cone companies 1	က	:	:	:	:		•	•	:	:
Corsetiere	•	20	* * * .	•		o o a	:	:	•	:
Catering companies	18	સ	0 0 0	:	•	•	•	•	:	
Casket companies 2	24	1		* • •			•	•	:	
Carpets and rugs 6	30	ខា		0 0 0	0 0 0		o o o	• • •	0 0	:
Car companies 2	94	•	•	0 0 0	:	0 0 0	•	0 0		ø 0
Drug companies 3	11	15	3.10	.50	1.85	1.50	.75	1.25	81/2	2
Door check companies 1	က	•	•	**************************************	0 0 0		•	:	:	:
Elevator companies	11	1	0 0 0	0 0	•	o o o	•	:	٠	:
Electric companies	209	ιο	•	0 0 0	:	•	• • •	0 0 0	•	
Extract companies	32	ಣ	0 0	•	:		o 0 0	•	0	:
Furniture companies 4	83	•	4.80	2.00	2.75	:	•		6	:
Feed companies 2	18	©1	0 0	:	:		•	0 0 0	•	:
Furnace companies 2	10	•	•	•	•	0 0 0	•		:	
Foundries 8	102	1	:	•	•		;		•	0
Fuse and powder companies 1	15	15		•	•	0 0 0		0 0 0	a 0	
Fixture companies 5	65	:	0 0 0	•	:		• • •	0 0 0	0 0	•
Fire works company 1	- The second	<del>ug</del> i	0 0 0	•	•	•	• • •	•	•	:
Grocery companies 5	13	ಣ	2.50	2.50	2.50	1.00	1.00	1.00	œ	20
Granite and marble companies 5	83	:	0 0 0	* * *		•	•	•	:	:
Glove companies	П	1	0 0 0		:	•	* * *	•	:	•
Garages7	'co co	•	0 0 0	:	•		•	•	:	:
Hair goods companies 14	<del>-</del> ;	45	5.50	1.00	5.50	1.00	1.00	1.00	<b>6</b>	∞

# DENVER MANUFACTURING—Continued

	•	Employees	Male	rle	Wages		Female		HO	Hours
Establishments	No. Male	le Female	Highest	Lowest	Average	Highest	Lowest	Average	Male	Female
Harness shops	5 43	:	5.00	85.	3.50	•	•	•	6	:
Hardware companies	4	.:	•	:	:	:	:	•	:	:
Horse radish company	1	· · · · · · · · · · · · · · · · · · ·	•	•	:	•	•	•		:
Horseshoeing companies	5 15	3	•	:	•	•	•	•	:	:
Iron works	18 416	3 4	:	•	•	•	•	•	:	•
Ice and storage companies	2 286	•	•	•	•	•	•	•	:	:
Ink company	-	2 1	•	•	:	:	:	•	:	
Jewehry companies	1 73	2	4.50	.87	3.25	:	:	•	6	•
Junk house	1	9	•	•	•	•	•	•	:	•
Lumber companies	10 191	:	00.9	1.75	3.00	•	•	:	6	•
Lead companies	2 15	:	•	•	•	•	•	:	•	:
Machine shops 5	56 835	3 37	6.50	.50	3.00	1.50	1.50	1.50	6	6
Macaroni companies	4 41	:	2.50	2.00	2.25	•	•	•	6	-:
Millinery companies	15	4 34	2.75	2.75	2.75	5.00	92.	1.85	6	6
Milling and elevating	5 142		5.00	1.00	2.75	:	•	•	$101/_{2}$	•
Musical companies	1 1	:	:	•	•	:	•	•	:	:
Monumental works	1 10	(	•	:	:	:	•	•	:	:
Novelty companies	6 16	2	2.00	.65	2.65	1.00	1.00	1.00	6	6
Oil companies	4 68	3	3.25	3.00	3.25	2.00	2.00	2.00	91/2	6
Ore companies	2 20	:	:	:	• • •	•	•	•	:	:

Optical companies	10	:	•	•	•	•		:	:
Plumbing companies	<b>‡</b>	:	5.00	1.60	4.25	•		81/2	•
Printing companies 59	1,051	198	10.00	.50	3.25	4.00		∞	∞
Packing and Provisions11	519	20	3.50	2.00	2.70	•		10	
Paint companies 6	88	₩.	2.95	2.75	2.85	•		 6	
Pickle works 3	250	13	2.00	1.75	2.00	1.25		61%	91/2
Photo companies 1	21	€1	•	0 0 0	• • •	0 0		*	•
Pottery works 1	67		•	* * *				:	:
Railroad shops 6	1,294		0 0 0		•	•		:	:
Roofing companies	19	•	•	•	o o o				
Rubber works 2	6	-	:			0 0			:
Repair shops12	121	•			•			:	:
Shoe companies 21	111	53	3.00	1.00	2.25		1	10	10
Sheet metal companies	35	1	5.00	2.00	3.20	2.00		∞	~
Sugar companies	ເລ		•	o o o	o a o				
Sign companies	15		:	•	•				
Switchboard company	ବୀ	:	•	0 0 0	o 0 0	•			0
Seed company 1	50	01		•		•			
Supply companies10	123	60	•		•	•		:	
Smelting companies 2	505	•	•	•	•	•		9	:
Street car company	334	•	:		:			:	:
Steel pipe companies 3	91	•	•	:	•	:		:	:
Suspender company 1		c1	•	•	•	•		:	:
Surgical company 2	9	÷	:	*	:	•			
						•			

# DENVER MANUFACTURING—Concluded

		Emp	Employees	. Male	rle	Wages		Female		H	Hours
Establishments	No.	Male	Female	Highest	Lowest	Highest Lowest Average	Highest	Highest Lowest	Average	Male	Female
Tailor and clothing companies 64	64	136	294	0.00	2.00	3.40	3.00	1.00	2.00	6	∞
Taxidermist	:	4	7	2.60	1.25	1.75	1.25	1.25	1.25	81/2	81/2
Tent and awning companies	÷	24	52	3.00	2.75	2.90	2.00	1.75	1.90	81/2	81/2
Trunk companies	∞ :	40	1		:	•	•	•	•	:	:
Wagon shops 22	22	126	೯೨	4.25	1.00	2.78	2.00	2.00	2.00	o	o
Yeast company	<del></del>	6	9	:	:	:	•	•	•	:	•
Water companies	es :	35	1	•	•	:	:	:	•	:	
	;										
TOTALS	1.77.1	9,964	1,378								

### DENVER MERCANTILE

	Em	Employees	Male	Je	Wages		Female		田	Hours
Establishments No.	Male	Female	Highest Lowest	Lowest	Average	Highest	Lowest	Average	Male	Female
Auto companies 5	18	ಣ		•	•	:		•	:	:
Adding machine companies 1	111	1	•	•		•	• • •	:	:	:
Book stores 7	41	40	•	0 0 0	•	:	:	:	:	:
Brewing companies 1	च	:	:		•	•	:	:	:	:
Barbers' supplies 1	2	1	0 0 0	:		:	:	•	:	:
Bath houses 2	च्यून		:		•	•	•	:	:	:
Bottling companies	0.3	:	:	:	•		•	:	:	:
Commission companies46	414	22	\$1.00	\$1.25	\$2.85	\$2.75	\$2.00	\$2.50	10	∞
Construction companies 5	82		3.00	2.00	2.50	:	:	•	10	:
Creamerics 3	1	63		0 0 0	:	:	•		:	:
Casket companies 3	13	7		:		•	•	•	:	:
Crockery companies 2	6	1	* * * *	0 0 0	•	0 0 0	0 0 0	:	:	:
Drug companies 34	190	159	3.75	2.00	3.00	2.00	2.00	2.00	11	10
Dry goods companies106	1,723	2,176	8.35	.65	3.00	5.00	.25	1.80	10	6
Express companies 3	92	0 0 0	0 0 0	•	:	:	•		:	:
Electric companies 3	O	63	:	•		:	:	:	:	:
Furniture companies 20	176	15	6.00	1.00	2.55	2.00	1.00	1.50	6	∞
Freight companies 5	404	16	0 0 0	:	•	• • •	•	:	:	•
Flower companies 2	क्लूंद	Ţ		•	•	•	•	:	:	:
Grocery companies134	889	128	6.00	1.00	3.25	2.50	1.00	1.55	10	c.

### DENVER MERCANTILE—Concluded

	Emp	Employees	Male	le	Wages		Female		Ho	Hours
Establishments No.	Male	Female	Highest Lowest	Lowest	Average	Highest	Lowest	Average	Male	Female
Hardware companies10	102	6	8.00	2.00	3.00	1.75	1.75	1.75	10	∞
Hay, grain and fuel 54	566	9	3.00	1.75	2.30	2.00	2.00	2.00	91/2	6
Horseshoers 5	11	•	3.50	2.00	2.75	:	•	•	10	•
Hair stores 2	1	ಳು	:	•	•	•	•	•	•	:
Ice and storage companies 5	54	ಣ	•	:	:	0 0 0	•	:	:	:
Iron and metal companies 8	35	ಣ	:	•	•	•	•	•	:	:
Jewelry companies 2	12	7	:	•	•	:	•	•	·:	•
Livery companies17	302	ಣ	2.00	1.75	1.85	1.00	1.00	. 1.00	12	6
Lumber companies12	229	10	5.00	1.00	2.80	2.00	2.00	2.00	81/2	. 81/2
Light, heat, power 3	6	67	8.00	2.50	3.85	3.00	1.50	2.25	91/2	. 91/2
Lime companies 2	11	:	:	•	•	•	•	•	:	•
Mercantile companies 66	362	89	2.00	1.20	3.00	5.00	88.	2.00	81/2	37%
Machinery companies19	182	20	2.00	2.00	3.00	2.50	2.00	2.25	91/2	81/2
Monuments 2	18	:	:	:	:	•	•	•		:
Notion stores14	18	27	•	•	•	•	•	•	•	:
Oil companies1	∞	:	2.00	2.00	2.00	•	•	•	•	:
Optical companies 2	2	9	:	•	•	•	•	•	•	•
Plumbing companies17	26	19	8.00	1.50	3.85	2.50	2.50	2.50	81/2	71/2
Picture shows 5	11	9	:	:	•	:	:	•	•	
Piano companies 3	27	2	•	:	:	•	•	•	:	•

Paint companies	23	21	•	•	:	•		:	:	:
Rubber companies 1	ಣ		3.00	2.00	2.50	2.60		2.00	6	O.
Steel and wire companies 2	30	:	3.50	2.00	3.00	•	*	•	81/2	:
Transfer companies 5	112	:	:	•	•	•		•	•	:
Telephone company1	+774	625	:	•	•	•		•	•	:
Wagon companies 2	च्	¢1	•	•	•	•		•	:	:
Wall paper companies9	45	4	4.00	96.3	3.50	•		•	•	:
Warehouses10	130	က	•	•	•	•		•	•	•
Wrecking companies 1	10	•	•	•	•	•		•	•	:
İ										•
TOTALS640	6,339	3,401								
Laundries 57	437	839								

### MERCANTILE ESTABLISHMENTS

						,		4114	111	10171	. 010									
Hours	Worked	•	:	:	:	•	:	•	:	:	:	•	:	÷	•	စ	•	•	•	:
	Aver.	:	:	:	•	:	•	:	:	:	•	:	•	•	•	\$1.80	•	•	•	:
Female	Lowest	•	•	•	•	•	* *	:	:	· :	•	•	•	•	:	\$ .50	•	:	:	:
	Highest	•	•	•	:	•	:	:	:	• •	•		•	•	•	\$1.00	•		•	:
	Aver.	:	:	•	•	•	•	:	:	•		•	•	•	•	\$2.50	•		•	:
Male	Lowest	•	:	•		:	:		:		:	•	•		•	\$1.00	•	;	•	
	Highest	•	:	•	:	:	:	:	:	•	:	:		:	0 0	\$6.00	•	:	•	:
	Female	c1	15	14	12	. 1	0	86	18	₹	1 ,	က	0	0	0	371	29	ഖ	0	17
	Male	27	80	43	7	16	ಬ	13	22	18	4	14	1	11	က	<b>422</b>	188	မွ	6	38
		16	30	19	18	16	23	22	6	ಬ	-	10	-	67	<b>H</b>	191	99	വ	-	13
	Female	Male Female Highest Lowest Aver. Highest Lowest Aver. V	Male Female Highest Lowest Aver. Highest Lowest Aver. Work	MaleFemaleFemaleHoundleMaleFemaleHighest LowestAver. Highest LowestAver. Work2728015	Male         Female         Highest         Lowest         Aver.         Highest         Hourst         Hourst           27         2                80         15                43         14	Male         Female         Highest         Lowest         Aver.         Highest         Hourst         Howest         Aver.         Work           27         2 <td>Male         Female         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Worked           27         2                 80         15                 43         14                 16                  16              </td> <td>Male         Female         Highest         Lowest         Aver.         Highest         Hower         Hower           27         2                 80         15                43         14               44         7               16                5         0           </td> <td>Male         Female         Highest         Lowest         Aver.         Highest         Hours           27         2                80         15                43         14                44         7                16                 5         0                73         30            </td> <td>Male         Female         Highest         Lowest         Aver.         Highest         Hours           27         2   </td> <td>Male         Female         Highest         Lowest         Aver. Highest         Hours           27         2  </td> <td>Male         Female         Highest         Lowest         Aver.         Highest         Lowest         Aver. Worked           27         2  &lt;</td> <td>Male         Female         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Worked           27         2   <td< td=""><td>Male         Female         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Worked           27         2   </td><td>Male         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Worked           27         2   </td><td>Male         Female         Female         Hours           27         2   </td><td>Male         Female         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Hours           27         2   </td><td>Male         Female         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Worked           80         15  </td><td>Male         Female         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Worked           80         15  </td><td>Male         Female         Highest         Lowest         Aver.         Highest         Highest         Highest         Highest         Highest         Highest         Highest         Aver.         Worked           52         15   </td></td<></td>	Male         Female         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Worked           27         2                 80         15                 43         14                 16                  16	Male         Female         Highest         Lowest         Aver.         Highest         Hower         Hower           27         2                 80         15                43         14               44         7               16                5         0	Male         Female         Highest         Lowest         Aver.         Highest         Hours           27         2                80         15                43         14                44         7                16                 5         0                73         30	Male         Female         Highest         Lowest         Aver.         Highest         Hours           27         2	Male         Female         Highest         Lowest         Aver. Highest         Hours           27         2	Male         Female         Highest         Lowest         Aver.         Highest         Lowest         Aver. Worked           27         2  <	Male         Female         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Worked           27         2 <td< td=""><td>Male         Female         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Worked           27         2   </td><td>Male         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Worked           27         2   </td><td>Male         Female         Female         Hours           27         2   </td><td>Male         Female         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Hours           27         2   </td><td>Male         Female         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Worked           80         15  </td><td>Male         Female         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Worked           80         15  </td><td>Male         Female         Highest         Lowest         Aver.         Highest         Highest         Highest         Highest         Highest         Highest         Highest         Aver.         Worked           52         15   </td></td<>	Male         Female         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Worked           27         2	Male         Highest         Lowest         Aver.         Highest         Lowest         Aver.         Highest         Lowest         Aver.         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Worked           52         15

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o City  ne Wells  reek  of o City  of o City  ne Wells  a  a  a  a  for o City   75	275	42	च्य	က	41	6,339	33	66	111	<del> </del>	20	10	¢1	t of	176	ro	ıg	63	9	90	261	81	18	
Cripple Colora Chever Chever Chand Coal ( Denve Delta Delta Delagr Dolore Eaton Floren Floren Fort ( Fort ( Fort ( Greele Greele		Colorado City 1	Cardiff	Cheyenne Wells 2	Chandler 1	Coal Creek	Denver 640	Durango16	elta17	Delagua 1	Dolores 3		Evans 6	Elmoro 2	Florence	Collins	ort Morgan 1	Forbes1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Firestone	Glenwood14	Greeley		Golden9

## MERCANTILE ESTABLISHMENTS—Continued

	Hours	Vorked	•	•	:	•	•	•	:	:	:	:	:	:	:	•		•	•	Ф « ч	:	
		Aver. Worked	*	:	:	:	:	:	•	:	•	:	:	•	•	•	:	:	*	:	:	
	Female	Lowest	:	:	:	:	:	:	:	:	:	•	:	:	•	:	:	•	:	•	*	
		Highest	:	:	:	:	:	:	:	•	:	•	•	•	•	•	•	•	:	•	:	
Per Day		Aver.	:	:	•	:	/ <sub>0</sub>	:	:	:	:	•	:	:	:	:	•	•	:	•	:	
Wages Paid Per Day	Male	Lowest	:	:	:	:	:	:	:	•	•	•	:	÷	:	•	:	•	•	:	:	
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Minturn	Milliken	Mancos	McGuire	New	New Castle	Ordway	Ouray	Pueblo	Pierce	Platteville	Portland	Pryor	Piedmont	Rocky	Rifle	Rouse	Rockvale	Ridgway	Radiant	Ravenwood	Salida	Segunda	Sopris

## MIGRCANTILLE ESTABLISHMENTS—Concluded

Est.		Employees	Wa	Wages Paid Per Day	Per Day				
				Male			Female		Hours
Cities	Male	Female	Highest Lowest	Lowest	Aver.	Highest	Lowest	Aver.	Worked
Sterling	24	6	:	•	•	:	•	:	
Swink1	09	0	:	•	:	•	•	:	•
Silver Plume 3	9	0		•	•	:	•	•	
Silverton9	31	0	:	:	•	:	•	•	•
Strong	23	0	•	•	•	:		•	•
Starkville 3	11,	0	:	:	•	•	•	•	•
Superior1	က	1	:	•	:	•	•	:	•
Telluride9	31	9	•		:	:	•	•	:
Trindad109	613	113	:	•	:	•	•	:	•
Tercio1	23	0	•	•	•	•	•	•	•
Tioga1	63	0	:	•	•	•	•	•	•
Tollerburg 2	2	23	•	•	:	:	•	•	•
Walsenburg 42	109	19	•	:	:	:	•	:	•
Weston 1	14	0	•	:	:	:	:	:	:
Woolton	4	0	•	:	:	:	•	:	:
				,					

### MANUFACTURING ESTABLISHMENTS

					Wages P	Wages Paid Per Day	Эау			Hours	
	Est.	Emp	Employees		Male			Female		worked	
Cities		Male	Female	Highest	Lowest	Aver.	Highest	Lowest	Aver.	per day	
Ault	21	unipd unipd	-		:	•	:	*		•	
Alamosa	19	240				0 0	0		:		
Aspen	11	. 02	0	:	0 0		0 0	o o o	•	•	
Austin	21	140	30		0 0		0 0	:	:	-	
Aguilar	2	191	0				0 0	•	:		,
Anaconda	<u></u>	18	0	* *			•	•	:		
Arvada	10	94	2	:		•	:	:	:		
Argo	-	30	0 1		0 0	0 0		•	•	:	
Buena Vista	ಣ	57	0	0 0		•	:	:	:	•	
Boulder	600	87	25	:		:	•		•	•	
Brush	∞	261	0			:	•	:	:	:	
Berthoud	. 16	37	വ			•	0 0	0 0	:	0 0	
Brighton	12	66	187				•	•	:	0 1 0	
Bristol	<b>—</b>	12	0	o a o			0 0	o o o	*	0 0	
Battle Mt	೯೦	10	0	0 0	0 0		0 0 0	o •	:	0 0	
Bull Hill	ro	ਲੁੰ	0		0 0		•	•	:	•	
Beacon Hill	-	105	0		0 0	•	•	•		•	
Black Hawk	4	20	0	:		*	•	* * *	•		
Badger Station	_	2	0	o o	o o o	•	0 0 0	e e	:	•	

# MANUFACTURING ESTABLISHMENTS—Continued

Hours	South our		. per day	:	•		•	•	•	• (	01.	•	:	:	•	:	0 <u>r</u>	:	:	:	:	•	
		V	Aver.	•	•		•	•	•	• 6	06.1¢	•	:	:	:	•	1.50	:	:	:	:	:	
	Female	Lowest	TO WEST	•	•			•	•	: 6	8.14	•	•	•	:	• 6	1.00	•	:	•	:	:	
Day		Highaet	TTIP III COL	÷	:	:			e o	∵ ઈ	00.14 00.14	:	•	•	•	: 8	2.00	:	:	:	•	•	
Wages Paid Per Day		Aver		•	:	:	•	;		84	) }	o o	•	•	*	4	00 <b>.</b> ‡	•	•	•	•	•	
Wages	Male	Lowest		:	:	•	:	:	:					e e	:			•	:	•	•	•	
-		Highest		:	:	•	:	:	•	\$5.00		•	•			, Lo			o •	•	•	:	
	Employees	Female	-	+ <	>	0	0	0	0	192	85 80	0	0	ବର	,	4	0	¢	· •	· c	· c		_
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		Cities	Bessemer	Breckenridge	The second secon	broadhead	Brookside	Berwind	Bowen	Colorado Springs	Canon City	Carbondale	Cokedale	Central City	Cripple Creek	Colorado City	Cameron	Concrete	Cardiff	Cheyenne Wells	Chandler	Cosl Creek	dat Cleek

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Cedarhurst	Denver .	Durango	Delta	Delagua .	Dolores .	Downer .	Dacona.	Eaton	Erie	Elkton	Engleside	Evans	Florence	Fort Collins	Fort Morgan	Fort Lupton	Forbes	Farr	Frederick	Firestone	Glenwood	Greeley .	Grand Ju

# MANUFACTURING ESTABLISHMENTS—Continued

•			Wages I	Paid Per Day	Day		14	Hours
Est.		Employees	Male			Female	M	worked
Cities	Male	Female Highest	Lowest	Aver.	Highest	Lowest	Aver. per day	r day
Gunnison	ro	го :	•	• •	•	•	• •	•
Golden10	124	9	:	ė	:	:	•	•
Gray Creek	41	: 0	•		:	:	•	
Georgetown	12	: 0	•	•		•	•	•
Coldfield	ıc	: 0	:	:	•	•	•	:
Gladstone	13	0	•	•	•	•	•	٠
Corham2	2	0	•	•	•	:	•	:
Higgins	19	: 0	:	•	•	•	•	:
Hotchkiss1	12	9	•	•	•	•	•	:
Hastings	296	0	•	:	•	•	•	•
Hartman1	2.4	: 0	•	•	•	:	•	:
Holly	23	: 0	•	•	:	•	:	:
Hugo 5	15	::	•	•	•	:	•	:
Idaho Springs13	52	: :	•	•	•	•	•	
Iron Clad Hill	ιĢ	: 0	•	•	:	•	:	•
Independence1	09	: 0	•	•	:	:	•	:
Jansen1	20	: 0	:	•	•	•	•	•
Louisville6	16	.:	*	•	:	•	•	:
Lafayette11	68		:	•	:	•		:

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16	55		88	67	11	12	13	-	<u></u> -	ಣ	1	+34	23	7	18		1	1	9	$\vdash$	4	27		
Lamar	Leadville	Leyden	Loveland	Longmont	Las Animas	La Junta	Littleton	Los Angeles Station	Ludlow	Limon	Lester	Monte Vista	Manitou	Marble	Montrose	McClave	Modern Station	Minturn	Milliken	Maitland	Mancos	Morleÿ	Majestic	

# MANUFACTURING ESTABLISHMENTS—Continued

			Wages	Wages Paid Per Day	Day			Hours
Est.	Em]	Employees	Male			Female	×	worked
Cities	Male	Female Highest	Lowest	Aver.	Highest	Lowest	Aver. per day	er day
McGuire	9	: 0	•	:	•	:	•	•
New Windsor 12	27	: :	:	:	•	•	•	
Ordway 3	25	0	•	•	:	•	:	•
Ouray 9	23	: :	•	:	:	:	:	÷
Oakview	227	0	•	:	•	•	:	•
Pueblo118	4,819	148 6.00	.75	3.00	5.00	.50	2.00	6
Pierce1	23	0	:	:	•	•	•	•
Platteville 5	6	:	:	:	•	:	•	•
Paonia 3	29	:	:	:	•	•	•	•
Primero 1	က	: 0	•	•	•	•	•	:
Portland 2	123	0	:	:	•	:	•	•
Pictou1	209	0	•	:	•	•	:	•
Pryor 1	102	0	•	:	•	•	•	:
Piedmont 1	195	0	:	:	•	:	:	:
Rocky Ford	511	÷	•	:	•	•	:	:
Rifle 7	6	: 0	•	•	•	• •	:	÷
Rugby 1	165	0	•	:	•	•	:	•
Rouse	169	0	•	:	•	•	:	:
Rockvale	391	0	•	•	•	•	•	•

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25	51	162	581	75	175	92	329	230	319	10	33	19	360	¢3	29	596	155	86	23	46	182	17	207
21				23		61	27			<b>C1</b>	$\sim$		61									_	
Ridgway	Radiant	Ravenwood	Salida	Shoshone	Segunda	Sugar City	Sopra	Sterling	Swink	Silver Plume	Silverton 13	Strong1	Starkville	Superior	Telluride	Trinidad62	Tercio	Tabasco	Tioga 2	Toltec 11	Victor 16	Vindicator Junction	Valdez1
I	-	-	92	92	92	02		- 2	0,1	02	0/2	92	92	5/2	7.7	E-4	£.1			-		-	

# MANUFACTURING ESTABLISHMENTS—Concluded

					wages	wages Faid Fer Day	Day			Hours
	Est.	Eml	Employees		Male			Female		worked
Cities		Male	Female	Highest	Male Female Highest Lowest	Aver.	Aver. Highest Lowest	Lowest	Aver	Aver ner day
Walsenburg	23	595	-71							per day
Wiley	6	96			•	•	:	•	:	:
Woolfon	1 (	0 (	>	•	:	:		:	:	:
•••••••••••••••••••••••••••••••••••••••	.71	369	0 "	•	:	•	:		:	
Williamsburg	23	203	0	•	:		•	•		•

### HOTELS

HOTELS		Emp	oloyees
Cities	Est.	Male	Female
Ault	5	0	4
Alamosa	13,	10	18
Aspen	4	6	8
Aguilar	6	0	4
Buena Vista	2	3	4
Boulder	17.	75	58
Brush	3	2	6
Berthoud	2	0	2
Brighton	2	0	1
Beacon Hill	3	0	5
Black Hawk	2	0	3
Breckenridge	3	7	5
Colorado Springs	69	201	176
Canon City	12	13	19
Carbondale	1	1	0
Cokedale	1	1	3
Central City	2	7	4
Cripple Creek	24	17	21
Concrete	1	0	1
Cheyenne Wells	2	2	1
Chandler	1	0	0
Denver	285	1,157	1,219
Durango	9	17	<b>3</b> 0
Delta	2	3	5
Delagua	2	4	2
Dolores	2	1	1
Downer	1	2	2
Eaton	2	4	3
Empire	1	0	2
Erie	1	0	1
Evans	2	0	1
Florence	8	10	6
Fort Collins	16	25	17
Fort Morgan	3	8	11
Fort Lupton	2	2	4
Glenwood	21	64	46
Greeley	14	19	30
Grand Junction	13	28	22

### HOTELS-Continued

HOTELSContinued		Emr	oloyees
Cities	Est.		Female
Gunnison	1	8	6
Granada	2	0	0
Golden	3	1	2
Gray Creek	1	0	2
Georgetown	1	3	0
Gladstone	2	2	e
Gorham	1	0	9
Hotchkiss	1	1	6
Hastings	1	1	3
Holly	4	4	1
Hugo	2	5	0
Idaho Springs	7	8	4
Louisville	6	3	7
Lafayette	7	6	9
Lamar	8	5	8
Leadville	21	13	13
Leyden	1	8	4
Loveland	4	3	7
Longmont	14	5	11
Las Animas	4	7	E
Lyons	2	1	4
La Junta	10	32	32
Littleton	1	1	0
Ludlow	3	1	0
Limon	2	2	6
Lester	1	0	1
Monte Vista	3	1	5
. Manitou	42	175	109
Marble	3	2	2
Montrose	4	3	7
Minturn	2	0	0
Milliken	1	0	2
Maitland	1	0	0
Mancos	1	2	1
Morley	1	3	0
New Windsor	3	0	3
Ordway	3	0	4
Ouray	3	10	3

### HOTELS—Concluded

HOTELS—Concluded		Emp	oloyees
Cities	Est.	Male	Female
Oakview	1	0	0
Pueblo	114	65	75
Pierce	3	1	4
Platteville	1	0	2
Paonia	1	1	5
Primero	1	0	1
Portland	1	1	0
Pictou	1	0	2
Pryor	1	0	0
Rocky Ford	10	5	7
Rifle	1	0	0
Rugby	2	0	3
Rouse	1	0	1
Rockvale	1	1	1
Ridgway	2	1	3
Radiant	2	1	1
Salida	19	24	26
Shoshone	4	9	0
Segunda	2	0	0
Sugar City	2	0	3
Sopris	1	0	0
Stanley Lake	2	97	0
Sterling	5	9	8
Swink	1	b	0
Silver Plume	3	0	0
Silverton	2	4	2
Telluride	2	14	6
Trinidad	15	50	51
Tereio:	1	0	1
Tioga	2	0	1
Toltec	1	0	0
Victor	15	7	17
Valdez	1	0	1
Walsenburg	7	12	16
Woolton	2	3	0

### LAUNDRIES

						Wages P	Wages Paid Per Day	y		Hours
	No.	No. En	No. Employees		Male			Female		worked
City	Laundries	Male	Female	Highest	Lowest	Aver.	Highest	Lowest	Aver.	per day
Alamosa	<b>⊢</b>	က	ಲ	:	:	:	:	0 0	:	:
Aspen		21	67	•	•	:	•	:	:	:
Boulder	ço.	10	. 12	•	:	:	:	:	÷	:
Berthoud	က	27	1	•	:	•	*:	÷	:	:
Colorado Springs	. 11	09	155	\$3.50	\$1.00	\$2.70	\$2.25	& . TJ	\$1.40	G
Canon City	က <sup>1</sup>	9	19	•	•	•	•	:	:	6 ,
Cripple Creek	, L.	∞	12		:	•	:	:	•	:
Colorado City	. 1	က	0	•	:	•	:	:	•	•
Denver	. 57	437	839	3.50	1.00	2.75	2.25	57.	1.40	6
Durango	67	12	4	•	:	:	:	÷	•	6
Delta	. 1	<del>.</del> Н	4		:	•	:	:	•	•
Eaton	П.	7	ಣ		:	÷	:	:	÷	;
Florence	Н.	က	വ	:	• :	:	0 0 0	:	:	*
Fort Collins	က	11	19	:	:	:	:	•	:	:
Fort Morgan		23	9		:	:	•	:	÷	•
Glenwood	F .	4	13	:		:	•	:	÷	•
Greeley	es .	11	16		:	:	•	:	:	6
Grand Junction	. 2	11	25	•	:	:	•	:	:	6
Golden		67	4	:	:	•	•	:	•	n

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### RECAPITULATION

Number of Establishments Inspected	• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	5, 371
Esta	blishment	s Male	Female	Total
Hotels	965			
Male employes		2,309	••••	
Female employes	• • • •		2,242	
Total employes				4,551
Laundries	134		• • • •	
Male employes,		774		
Female employes			1,490	
Total employes				2,261
*Manufacturing	2,082			
Male employes		36,002		
Female employes			0.441	
			2,441	
Total employes	• • • •	• • • • •		38,443
Mercantile	2,190			• • • •
Male employes		12,086		
Female employes			5,194	
Total employes				17,280
Grand totals	5,371	51,171	11,367	62,538

<sup>\*</sup>U. S. Government Report on Factories in 1909 shows:

### VIOLATIONS OF THE STATE EIGHT-HOUR LAW

In the month of March, 1911, complaints from men working on the county roads of Larimer county were received, that they were required to work nine and ten hours per day, contrary to the state law, which is mandatory in stating that "it shall be unlawful for any board, officer, agent or any contractor or sub-contractor thereof, to employ any mechanic, workingman or laborer in the prosecution of any such work for more than eight hours a day" (3 Mills (Rev.) Stats., 2801a.).

The matter was at once taken up with the county commissioners of that county, and, after some correspondence with them, the following letter was received from the Hon. John J. Herring, county attorney:

Total Factories, 2,038; gain in 1912, 44.

<sup>\*</sup> Total Employes, 34,115; gain in 1912, 4,328.

"Fort Collins, Colo., May 1, 1911.

"Hon.- Edwin V. Brake, "Denver, Colo.

"Dear Sir—Your letter of the 28th to the Board of County Commissioners has been referred to me for reply."

"I will say that every road overseer in the County of Larimer was notified by letter either the 29th of April or the first of May to, under no circumstances, directly or indirectly, employ labor for more than eight hours per day. I believe that this will end any trouble of this kind in this county. If it does not and you will notify me of any specific violation, I will at once take measures to stop it.

"I write you this letter by direction of the board.

"Yours truly,

(Signed) "JOHN J. HERRING."

The bureau has received no further complaints from that county.

### GRAND JUNCTION

September 19, 1911, a complaint was received from Grand Junction stating "the city is working men on the street paving here over eight hours a day; some are working twelve and fourteen hours a day; what can be done to stop it?"

The matter was at once taken up with Mayor Thomas M. Todd and the following reply received:

"Grand Junction, Colo., September 29, 1911.

"Mr. Edwin V. Brake,

"State Labor Commissioner,

"Denver, Colo.

"Dear Sir—In reply to yours of the 20th, in regard to the city and the eight-hour law, will say that it is not our intention to work over eight hours. We would like to on account of the short time before freezing weather will stop us, but fully understand the law and expect to live within it. However, at the start, it seemed that our street commissioner was unable to so line up the finishers on the street paving as to prevent some overtime. We are now starting the finishers (some of them) at noon and they work later and only work overtime when the rain retards the cement and they have to wait sufficiently for them to mark.

"Yours truly,

(Signed) "THOMAS M. TODD,

"Mayor."

Letter was received from the parties entering the complaint stating that everything was now satisfactory.

### STATE BRIDGE AT RIDGWAY

(Night Telegram)

"Ouray, Colo., April 24, 1911.

"E. V. Brake,

"State Labor Commissioner, "Denver, Colo.

"Party building state bridge at Ridgway working men ten hours. I saw him today. He tried to put the blame on county commissioners, but when I cornered him on that he said that he would work ten hours until we stopped him. Send nian or instructions.

"A. M. PRYOR,
"Secretary, Ouray Miners' Union."

Upon receipt of this, the State Engineering Department was consulted, and it was ascertained that the contract for the erection of this bridge was let to the Missouri Valley Bridge and Iron Company, with general offices at Leavenworth, Kansas. Mr. Charles W. Comstock, State Engineer, however, notified the company to observe the state eight-hour law, and on April 26 the foreman of the men building the bridge at Ridgway notified the department that "we are now working eight hours." (Signed: "C. E. Collins, Foreman.")

### BRIDGE ACROSS GRAND RIVER AT GRAND JUNCTION

February 7, 1912, a complaint was received from Grand Junction that the Patterson Bridge Company, of Denver (Mr. J. J. Lumsden, subcontractor), was building a state or county bridge across the Grand River, and that the employes were working ten hours a day. Mr. Lumsden was communicated with on the subject, when representatives of the Patterson Bridge Company called at the office of the bureau and stated that they were unaware of the violation of any state law, but would immediately comply with the law. No further trouble has occurred in this matter.

### PAONIA ELECTRIC LIGHT PLANT

August 12, 1912, a request was received from Paonia people to have the electric-light plant of that town obey the eight-hour law regarding the hours worked by employes. The matter was taken up, the town officials being communicated with, and on August 27 the following letter was received:

"Paonia, Colo., August 27, 1912.

"Mr. E. V. Brake,
"Labor Commissioner,
"Denver, Colo.

"Dear Sir: Upon my return to Paonia after an absence of several days. I find your letter of the 13th, and in reply to the same wish to say that we are just completing the installation of

a new unit in the plant, and in a few days, as soon as it is in running order, will start a twenty-four-hour service and put on three eight-hour shifts, which will, I think, conform with the law.

"I take it the complaint you speak of is in regard to the engineer, as this is the only employe I have that is working over eight hours, save a lineman who only works over eight hours when an emergency comes up, and then allowance is made on the next day.

"Assuring you of my desire to comply with the law and to co-

operate with you in every way, I am,

"Yours very truly,

(Signed) "V. P. RAWALT,
"City Electrician,
"Water Commissioner."

The parties making the complaint notified this office that matters had been satisfactorily adjusted, with thanks for the prompt action taken.

### BOULDER CITY WATERWORKS

In the latter part of June and in July, 1911, several complaints were received that the Boulder waterworks officials were violating the eight-hour law, and also that men who were hired to work there were not receiving fair treatment. On July 13 a letter was addressed to the city engineer of Boulder, reciting these complaints and requesting a compliance with the law and fair treatment for the men engaged to work on the Albion dam, to which the city engineer replied as follows:

"Boulder, Colo., July 22, 1911.

"Mr. Edwin V. Brake,
"Deputy Labor Commissioner,
"Denver, Colo.

"Dear Sir: Yours of the 13th inst. at hand and contents noted. In reply would say that the city of Boulder has no disposition to violate the labor laws either in letter or spirit. The Albion dam, where the city is working, is situated at an altitude of 11,000 feet, and the season is very short at the best. All the men are hired and paid on an eight-hours-a-day basis. No man is required to work more.

"We have installed an expensive plant of machinery, and if we do not finish this season it will cost a large sum of money to house and store this plant. For this reason we have been putting in all the time possible. No man is required to work overtime even, and only the absolute necessity of the work leads us to ask

anyone to work overtime.

"I am a firm believer in an eight-hour day, even aside from the law in question. Will say that just as soon as we finish our installation it is our intention to put on two shifts of eight hours each, but in handling the heavy machinery and tuning up the

plant it did not seem advisable to divide the shifts yet.

"In regard to sending the men up and not putting them to work, will say that it happened *once*, and we regretted it as much as anyone; but there was no intention of deceiving the men, and circumstances over which we had no control were responsible for this occurrence. I have now inaugurated a system whereby men get tickets from my office entitling them to work, and these tickets are honored on the job.

"We pay top wages and try to run a good camp and treat the men right. Hoping that this is satisfactory, I am,

"Very truly yours,
(Signed) "FRED R. DUNGAN,
"City Engineer."

No further complaints were heard, either of treatment of the men or of violation of the eight-hour law.

STREET-CAR VESTIBULE AND EIGHT-HOUR LAW AT COLORADO SPRINGS

"Colorado Springs, Colo., April 30, 1912.

"Hon. E. V. Brake,
"Deputy Labor Commissioner,
"Denver, Colo.

"Dear Sir: In compliance with your orders to investigate the reported violation of the street-car vestibule law and the

eight-hour law, I desire to report as follows:

"The Colorado Springs Interurban Railway was using cars with vestibule at one end of the car only. Owing to the fact that the streets of this city are being paved, the loop around which the cars turn could not be used, and the motorman has to change ends in operating the car, thus exposing him to the

element one way of a round trip.

"I discovered that the company had cars that are vestibuled at each end, unused in the barn, and I ordered Superintendent Lothrop, of the street railway, to comply with the law and use these cars. He promised to comply the following morning, and failed to do so. Before proceeding further, I deemed it best to take up the matter with Dr. Rice, one of the executors of the Stratton Estate, owners of the railway. I requested him to install the cars at once. He did so within an hour, without further friction.

"As to the reported violation of the eight-hour law relative to municipal work by the city of Colorado Springs in its paving work, I found on investigation that the law was being violated, that the men were working over eight hours a day, and took up the matter with Commissioner Lawton. He said that he would see the contractors at once, which he did, and they promised to comply strictly with the law. In order to see that the law was complied with to my satisfaction, I continued to investigate for three days further, and can report that the promise was kept, the men were working only eight hours.

"Respectfuly submitted,
(Signed) "FRED WEINLAND,
"Deputy Factory Inspector."

### NORTH DENVER SEWER CONTRACT

"Denver, Colo., March 21, 1912.

"Hon. E. V. Brake,
"Deputy Labor Commissioner,
"Denver, Colo.

"Dear Sir: In compliance with your orders of March 12 to investigate the conditions of the workmen on the North Denver

sewer, I beg leave to submit the following report:

"I went to this place and found work going on in two different alleys, under the supervision of the Commonwealth Construction Company. One of these jobs was about finished, the tile being laid. In talking with the men on this job, I found them to be perfectly satisfied both with the time they worked—eight hours—and their wages. I then went about a block south of there and found another gang of men working. The first man I approached had been working piece work most of the winter, and stated to me that the most he had made in any one day of ten hours was \$1. This the foreman of the job contradicted immediately, stating that out of the thirty men working all were perfectly satisfied except two, and would rather work piece work than day work. The man then replied that he knew fifteen men out of the thirty were dissatisfied and were only making \$1 a day. I then asked one of the men whom the foreman cited as being perfectly satisfied with the piece-work system, how long it would take him to dig a portion of the trench, twenty-one feet long, eight feet deep, and two feet wide. He said that, if the ground was in the condition that it was then, it would take him about two days to dig it. While talking with this man, another man came up, who was asked the same question, and he said it would take him about four days, as he had been working now on a piece of trench about the same length, and that he had only got down four feet.

"Two of the men, Oscar Newberg and Karl Blumberg, were forced to quit for the reason that they could not make enough money to pay their board. Their average, they said, was 50 cents a day. In three and a half days' work they had drawn

in pay \$2.25.

"Of all the men I talked to I only found about one-third who were satisfied. "Respectfuly submitted,

(Signed) "GEORGE R. HOWE, "Deputy Factory Inspector."

"Denver, Colo., March 21, 1912.

"To the Board of Public Works, "City Hall, "Denver, Colo.

"Gentlemen: Inclosed I submit you a copy of the report that has been made by my assistant whom I sent to examine and report upon the condition under which the men were working on the North Denver sewer.

"I understand that the law, as per the provisions of the charter of the city of Denver, has been, and is being, violated repeatedly in the matter of the subletting of contracts, and also that the state eight-hour law, applying to state, county, and municipal work, is, to my knowledge, repeatedly being violated. I intend to prosecute all such violations, and expect to have the co-operation of your honorable body in this work.

"Very truly yours,

(Signed) "EDWIN V. BRAKE,"
"State Labor Commissioner."

"Department of Public Works, "City and County of Denver, March 25, 1912.

"Hon. Edwin V. Brake,
"Deputy Labor Commissioner,
"State Capitol, Denver.

"Dear Sir: In reply to your letter of the 21st inst., enclosing a report by Mr. George R. Howe, respecting labor conditions on the 'North Denver sewer,' now being constructed for the city under contract, I am desired by the board to note that you will prosecute any violation of the contract in the matter of subletting or of the state eight-hour law, applying to state, county, and municipal work.

"This board has been, and still is, using its best endeavors to obtain evidence relating to the same, and so far has been met with a flat denial on the part of the contractors of any violation

of contract, ordinances, or statute.

"The Board of Public Works finds it difficult to take a definite stand on questions of disputed fact which can only be ascertained by a court of law. Therefore it will gladly place at your disposal all the information and documents it possesses, and begs to assure you that it will countenance no infraction of contract, ordinance, or statute.

"I am,

"Yours very truly,

(Signed) "HENRY READ, "President."

Considerable time was spent by members of the Labor Department on the case cited above. Many times different deputies waited upon Mr. Read and the Board of Public Works, until the law and ordinances were observed by the contractors, and a minimum scale of 25 cents an hour obtained for the workmen.

### VIOLATIONS OF EIGHT-HOUR LAW IN DENVER

With few exceptions, it is well known that the contractors and subcontractors on public works in Denver are notorious for violating the eight-hour law. The subject of prosecutions for these violations is a matter for the district attorney's office to handle, and since the time when a deputy district attorney appeared before Justice C. J. Gavin and ordered nolled a number of complaints that were then before the court, with numerous witnesses to testify to the same, it has been deemed almost impossible to attempt prosecutions with success. I am in hopes that a different order of things will come with different officials in this office of district attorney, and that the Labor Department will have its hands strengthened in the matter of prosecutions for violation of labor laws.

Numerous complaints were constantly made of these violations, and it has been the policy of the office to investigate them. The complaints were found to be true in nearly every instance, and the contractors were warned to obey the law, which they did for a few days, or until they were pretty sure that members of the Labor Department were no longer watching them, when the regular order of working nine and ten hours a day would again commence.

It has been impossible, with the force in the department, to detail members to attend to this work at all times, as other work and other duties, which the law prescribes they shall perform, had to be attended to. But, with the limited time at the disposal of the deputy factory inspectors and others, it has been the policy of the office to enforce the eight-hour, and other laws enacted for the protection of the wage-earners, as much as was possible.

### DEPUTY STATE FACTORY INSPECTORS REPORTS

ACCIDENTS, MINE SCALES, AND VIOLATION OF STATE LAWS

In the early part of October, 1911, it was reported that a boy had been killed at the Brook and Harrison Mine, located near Louisville, and that the child-labor law was being violated at this mine. Deputy Factory Inspector Frederick Weinland was sent to investigate the matter. His report and the report of the coroner's jury follow:

"Denver, Colo., October 9, 1911.

"Hon. Edwin V. Brake,
"State Labor Commissioner and Chief Factory Inspector,
"Denver, Colo.

"Dear Sir: In compliance with the orders of Mr. R. E. Croskey, State Statistician and acting in your absence, to be present at the coroner's inquest at Louisville over the body of Edgar Vigers, who was killed by falling down a mine shaft, and to investigate any violations of the child-labor law, I will say that the boy was not employed there, and that it was purely accidental.

"His father took him with him on the cage to start the pumps. The night engineer was under the impression that the cage was at the bottom of the shaft. Instead it was at the surface landing, and he started the cage upwards. When they arrived at the coal shoot above, Mr. Vigers jumped and called to his boy to jump. It was dark at the time, and Mr. Vigers could not see the boy, but was under the impression that he tripped and fell down the shaft. The back of the boy's head was crushed and his spinal column broken, causing instant death. The father had been cautioned about taking the boy on this cage by Mr. Brooks, president of the company, but paid no attention to it.

"It is a question in my mind whether the night engineer is a qualified engineer or not, and he was directly responsible for the accident. I would suggest that the Coal Mine Inspector, Mr. Dalrymple, have the coal company comply with the state laws on its signal system, and by providing a better light on its indicator. I enclose a copy of the coroner's verdict, and trust this will be sufficient.

"Very respectfully yours,

(Signed) "FRED WEINLAND, "Deputy Factory Inspector."

### CORONER'S VERDICT

"That the said Edgar Vigers came to his death at the Brook and Harrison Mine, located about a mile south of the town of Louisville, Boulder County, Colorado, on Thursday, October 5, 1911, on or about 6.30 p. m., by falling down the shaft. Caused by the negligence of the engineer in not looking at indicator before starting cage.

(Signed) "H. A. MOORE,
"D. M. MORGAN,
"FRANK MALONE,
"W. O. MCCULLOCH,
"H. BALL,
"FRANK HAMILTON,
"Jurors."

### ACCIDENT AT LANTZ SANITARY LAUNDRY, DENVER

"Denver, Colo., May 17, 1911.

"Hon. Edwin V. Brake,
"State Labor Commissioner,
"Denver, Colo.

"Dear Sir: In compliance with your orders to investigate the accident that occurred at the Lantz Sanitary Laundry. I have to say: Young Mr. Lantz was in the act of placing the belt on the upper pulley that connected with the washing-machine, when his sleeve was caught with a coupling. He was thrown over the shaft and was injured—physicians think internally. No bones were broken, but he had some burns. It was not necessary for the young man to get on top of this washing-machine, as they have a contrivance for replacing these belts. Loose pulleys are provided on the machine, but no belt shifters could be used. Mr. Lantz. Sr., informed be that he had cautioned his son not to get on these machines, and he blames the boy for his own carelessness.

"I issued the following orders in the presence of Engineer Bass, and was informed that they would comply with them immediately: Cover couplings with hoods; countersink set screws on rotary dryer; place two covers on extractors; put new rubbers on small extractor to keep from wabbling; cut off end of shaft, and protect all belts on end machines; also fix fastener on starch machine, and tighten belt on rotary machine.

"Respectfully submitted,

(Signed) "FRED WEINLAND,

"Deputy Factory Inspector."

ACCIDENT AT BELVEDERE HOTEL, DENVER

"Denver, Colo., June 1, 1911.

"Hon. Edwin V. Brake,
"State Labor Commissioner,
"Denver, Colo.

"Dear Sir: In compliance with your orders to investigate the accident that occurred at the Belvedere Hotel, Fifteenth and

Glenarm Streets, Denver, I report:

"Ed Welsh, colored janitor at the hotel, was preparing to wash the windows on the top floor of the hotel. He had removed the screens and was standing on the upper balcony of the fire-escape. The supposition is that, after he had removed the screens from the windows, his attention was attracted to the alley below. He stepped to the outer edge of the landing of the fire-escape, lost his balance, and grasped the live wire of the Denver Gas and Electric Company, in which the insulation had worked off. I find in almost all cases of the said company that they string their

wires too close to fire-escapes for safety. I also find that they place their electric switch-boxes too close to fire-escapes, and in a great many cases directly under the escapes. I would suggest that the company be notified to string their wires at a greater distance from the escapes, and in no case place electric switch-boxes near escapes.

"Respectfully submitted, -

(Signed) "FRED WEINLAND, "Deputy Factory Inspector."

NOTE.—The above recommendations were made, and the matter taken up with proper authorities for compliance.

### EXPLOSION IN COAL MINE AT HASTINGS

"Hastings, Colo., June 20, 1912.

"Hon. Edwin V. Brake,
"State Labor Commissioner,
"Denver, Colo.

"Dear Sir: I came here as per your orders on first train out of Pueblo. I found that there had been an explosion in the Victor-American Fuel Company's mine at this place, and that twelve men out of thirteen had lost their lives. One, severely burned, had been taken to the hospital at Trinidad. All the bodies had been located by 7 o'clock p. m. yesterday, and seven had been taken out when I arrived here.

"Everything possible was being done to get the bodies out, and the last one was taken out about 3 o'clock this morning.

We are trying to find out the cause of the explosion.

"Saloons in the town are closed, and everything seems to be managed in perfect order. The force of the explosion tore up the stope, so that the bodies had to be brought up through the airshaft, which made it very difficult and tedious work. However, the company did everything possible for a quick removal of the dead. The only thing that looked bad was in the fault of Mr. Sipes, the undertaker and deputy coroner, who allowed the bodies in the caskets to lie out in public view of everyone, in the broiling hot sun, from 5 o'clock a.m. until 9.40 a.m., when Marshal Caskey put them in the temporary morgue. State Coal Mine Inspector James Dalrymple and deputies are here, doing all possible for them to do.

"Yours truly,
"LEROY MONICAL,
"Deputy State Factory Inspector."

NOTE.—Full report of this explosion and its causes can be found in State Coal Mine Inspector Dalrymple's biennial report.

### INSPECTION OF WEIGHTS AND SCALES AT COAL MINES

Many reports were received by the department of scales at coal-mine tipples being defective, and numerous miners claimed that they were being defrauded by getting short-weighted on their coal mined. It should be understood that coal-miners are paid on the tonnage basis—so much per ton for coal mined. Deputy factory inspectors were instructed to examine into these complaints when inspecting surface workings around coal mines. The department has no jurisdiction under ground, that belonging properly to the duties of the mine inspectors, coal and metal. Deputy Factory Inspector Leroy Monical, who was assigned the Southern Field, reports as follows:

"Colorado Fuel and Iron Company's mine at Starkville: I find that they have a check weighman, and scales are all right. Most of the machinery unprotected. Have ordered it protected.

"McLaughlin Bros.' mine: I find scales O.K., and they are willing to obey all laws. New mine just opened up, March 20, 1912.

"March 21, 1912—Wooten Land and Fuel Company, two mines situated close to New Mexico line on the Santa Fe Railroad: I find the scales at the Wooten mine unbalanced, and scales at the Turner mine very unfair to the miners. They could not be balanced, and, on weighing a car of coal, the weight of three men weighing 450 pounds only increased the weight of the car fifty pounds. Scales seemed to be binding. They were inspected by the county inspector.

"March 22, 1912—Colorado Fuel and Iron Company's mine at Morley: Has no check weighman. Find the miners complaining of weights. On inspecting two pairs of scales, I find that neither will balance, and that the scales on the south tipple with 350 pounds increased the weight of a car of coal only fifty pounds. This is very unsatisfactory to the miners, who claimed that if they asked for a check weighman they would be discharged. This is disputed by Mr. Harrington, the company attorney at Denver.

"March 25, 1912—Suffield mine at Bowen: Find scales in perfect condition, able to balance and weigh myself correctly. Everything satisfactory in that line.

"At the Victor-American Fuel Company's mine at Bowen I found no check weighman, and scales in poor shape; could not balance, but was told by scale man that at three different times he tallied in weights with the railroad scales; which was possible—he weighing both.

"March 26, 1912, Tollerburg—Cedar Hill Coal and Coke Company: Found mine in good condition and scales in perfect order, and men well satisfied.

"At the C. F. & I. Co. mines at Berwind and Tobasco I was positively refused to be allowed to examine the scales, and was

told that I had nothing to do with them. I found the mine policed by a gun man, ready to run anyone out of town that did not suit him.

"March 27, 1912, Ludlow—Cedar Hill Coal and Coke Company: Find everything in good shape except the scales; they are broken. The company not weighing the coal at all for one week.

"Delagua—Victor-American Fuel Company's mine: Working good force of men. Was told it was an open camp, but found gun men ready to exile all undesirables, and was not allowed to test the scales. March 28, found the same conditions existing at Hastings, but was overlooked by the marshal, who failed to see me enter town.

"April 12, 1912: Have been inspecting at Trinidad; now back in the coal fields. First mine inspected was the Rocky Mountain Fuel Company's mine at Piedmont. Find things in good condition and paying the men by the car. The superintendent has worked nine years for the company and is well liked by the men.

"April 13, 1912: Inspected C. F. & I. Co. mine at Sopris. Found everything in very poor condition; no handrails on stairways. Was refused permission to examine the scales, as they belonged to the Western Weighing Association, and they are inspected by them, but they will protect all machinery as ordered according to the law.

"April 15, 1912, Tercio: At the C. F. & I. Co. mine and coke ovens the conditions were about the same as at Sopris, April 16. At Primero and Valdez things were about the same.

"April 17, 1912, Segundo—C. F. & I. Co. washer and coke ovens: Have no mine or scales. I found the machinery unprotected, and stairways without handrails, and the superintendent refused to give the number of men working. Have ordered machinery protected, etc.

"April 18, 1912, Coke Dale—Carbon Coal and Coke Company: Found most of the machinery protected and the company willing to do anything they were asked to. Superintendent Bayles asked me to inspect the scales and, if anything was wrong, to tell him, and he would have it fixed immediately, as they are anxious to have perfect harmony with their men, and that at any time he would be glad to have Mr. Brake visit his camp.

"April 19, 1912, Majestic—One of the C. F. & I. Co's mines: Found the scales in perfect condition; are working about 100 men.

"At Forbes, one of the Chicosa Fuel Company's mines, found men satisfied and being paid by the car.

"April 22, 1912, Ludlow—Ramey mine of the Huerfano Coal Company: Find the men are having trouble getting the increase of pay promised. Was invited to attend a meeting called by the men and held on the open prairie. They asked my opinion, and I gave it; but I am of the opinion that there is likely to be a strike called, unless conditions are adjusted.

"April 19, Forbes Junction—Chicosa Fuel Company's mine. Found scales O.K.

"April 22—Huerfano Coal Company: Find men satisfied and scales all right.

"April 26—Southwestern Fuel Company., Rapsen mines; Primrose Coal Company, and Rugby Fuel Company: Find that these mines are only working from one to two days per week. Are giving good weights.

"April 27—Ryval Mine, Victor-American Fuel Company: Was not allowed to see scales.

"Ideal Fuel Company's mine pays miners by the car; satisfactory.

"Empire Fuel, Royal Fuel, Rider Coal, National Fuel and Alto Fuel Companies' mines: Find them working about halftime, and scales correct.

"May 10-12, 1912—mines around Walsenburg: Loma Fuel Company's mine working few men.

"Robison mine, of the C. F. & I. Co.: Find they have marshal and closed camp. Mine is working a large force of men.

"Walsenburg Fuel Company, Breen Coal Company, Huerfano Coal Company, Black Canon Coal Company: Mines are working every day and giving the men satisfaction on weights; scales correct.

"May 14—Big Four Coal and Coke Company, Minnequa Coal Company, and Sunnyside Coal Co: Find scales in good condition and men satisfied. Found two boys working at the Sunnyside mine. The superintendent, being told that they were under age and could not work, laid them off immediately.

"May 15—Maitland: Not allowed to examine scales at Victor-American Fuel Company's mine. Scales correct at Rocky Mountain Fuel Company's mine.

"May 16—Gordon Coal Company: Working boys under sixteen years of age; had them laid off immediately. Found scales correct; also scales correct at New Maitland Coal Company's mine, and Rocky Mountain Coal Company's mine near McGuire.

"May 16—Pictou: C. F. & I. Co.'s mine visited. Was told by Mr. Manley, superintendent, that the Pictou mine was one mine that I could not inspect; that he was running that mine, not the State of Colorado, and the only way I could inspect that place was to get a special permit from Mr. Weitzel, the general superintendent at Pueblo, which I did the next morning. Mr. Manley met me the next morning and apologized profusely, saying that he had made a mistake; that it was the scales that I could not

inspect, which I did not. This is one of the finest mines in this district.

"May 18: Visited C. F. & I. mine at Lester. Only working three days a week. Could not examine the scales.

"May 19: Inspected C. F. & I. mine at Rouse. Was positively refused to be allowed to examine the scales.

"May 21: Inspected C. F. & I. mine at Cameron. Only working half-time. Could not see scales. National Fuel Company's mine: Scales were correct. Victor-American mine at Ravenwood: Working half-time; not allowed to inspect the scales. Union Coal and Coke Company's mine at Pryor: Scales were correct.

"May 28: Inspected the Oakdale Coal Company's mine at Oakview. Find D. W. Jones, superintendent, with strict orders from the general superintendent of company to pay the miners for every pound of coal mined, which he does. I saw cars of coal weighed that ran as high as 4,600 pounds; at some other places they possibly would have weighed 3,500 pounds. The scales at this mine are in perfect order."

This finishes Inspector Monical's report on the Southern fields.

"Florence, Colo., June 26, 1912: Inspected Victor-American Company's mine at Radiant. Examined the scales and found them correct. Emerald mine at Williamsburg and Hubbard mine: Found scales correct. C. F. & I. Co.'s Fremont mine was not working on the day of inspection to any great extent; only mining steam coal for boilers. Was told by the superintendent that I could examine everything but the scales, but after I had gotten through with everything else, the superintendent accompanied me to the tipple, and we examined the scales and found them correct. C. F. & I. Co.'s mine at Coal Creek not working; not allowed to examine the scales. Same company's mine at Rockvale working full force of men on day of inspection; not allowed to examine scales.

"July 9-12—Canon City: Central Coal Company, Little Brothers mine: Find the shaft 1,100 feet deep, with no gates on shaft on top of the ground. Sinking air-shaft. Tipple in bad shape. Decking no good; not safe for men to work on. Ordered new decking and rails on the same. Scales I found correct.

"Chandler mine of the Victor-American Fuel Company: Working good force of men few days a week. Balanced scales and found them all right. Brookside mine: Only working seven men; all machinery taken away. No Nack, C. F. & I. Co.'s mine: Shut down for the past four years; working six or seven men timbering up, and keeping dirt and rock out of the way.

"This concluded my report on coal mines.

"Respectfully submitted,

"LEROY MONICAL,
"Deputy State Factory Inspector."

REPORT OF INSPECTOR HOWE ON PATTERSON MINE

Denver, Colo., December 4, 1912.

Hon. Edwin V. Brake,
Deputy Labor Commissioner,
Denver, Colo.

Dear Sir: In compliance with your orders, I went to Colorado Springs to investigate the scales at the Patterson mine. On making as thorough an investigation as was possible, I found the scales, as I believe, in first-class shape. It seems that the men have complained before, and that the county inspector of scales had been to the mine and inspected the scales, and pronounced them as but two pounds out. The men evidently were not satisfied with this inspection, and wanted one made with weights, which, as you know, we are unable to do, having no provision in our law for the same.

The mine management has no agreement with the union, but I found that all the men working were union members.

A committee of the men waited upon me and I explained to them what I found, advising them that I found the scales in good condition, and that if there were any inaccuracies at any particular weight, it would be advisable to get an expert scale-repairer to examine the scales.

Respectfully submitted,

GEORGE R. HOWE, Deputy State Factory Inspector.

REPORT OF GEORGE R. HOWE ON OCEAN WAVE MINE

Pueblo, Colo., January 13, 1912.

E. V. Brake, Labor Commissioner, Denver, Colo.

Dear Sir: I have been to the Ocean Wave mine, near Florence, and have made a thorough inspection of the scales; also all other parts above ground. I found that the scales were balanced perfectly, and that the weights are solid and cannot be loaded. I tested the smaller weights by weighing myself, and found that the weight was about one-half pound more than my weight showed here. I believe that the whole trouble is in the loose manner in which the coal is weighed, as I saw the weighmaster weighing cars as they passed over the scale without stopping. I believe that it would be a very easy matter for him to make a mistake of 100 pounds in weighing 2,400 or 2,800 pounds, as that was the amount of two cars that were weighed standing still.

They have a bonus system at this mine, which is as follows: They claim to pay 90 cents mine-run, and for every fraction over 55 per cent of each load that is lump coal they pay the miner 1 cent extra. For example, if a load of coal should run 60 per cent lump, the miner would be paid 95 per cent mine-run for that load. Each man's car is dumped and screened, and the lump coal weighed as it goes into the car on the track. I saw two cars screened and out of a total of about 1,400 pounds, 1,000 pounds was lump. It appears to me that the men can be cheated out of a great deal in a day, if they don't have a check weighman.

There is plenty of time for each car to be weighed very accurately, but that is not done. The average miner will mine ten to fourteen cars per day, and they will run from 1,400 to 1,800 pounds to the car; so, if a mistake of 100 pounds was made on

each car, they would lose one-half ton or more a day.

There is quite a bit of work to be done here, but we will clean up as soon as possible.

Very respectfully,

(Signed) GEORGE R. HOWE.

REPORT ON EMPIRE AND GREEN CANON MINES

Denver, Colo., April 13, 1912.

Hon. Edwin V. Brake,
Deputy Labor Commissioner,
Denver, Colo.

Dear Sir: In compliance with your instructions to investigate the trouble at the Empire and Green Canon mines at Aguilar.

I submit the following report:

I found that it was reported by the men that Mr. Seiple, of the Empire mine, had refused to allow a check weighman, as the law provides. Talking with him about this matter, he denied making any such statement, and informed me that the men could have at any time a check weighman, provided this check weighman was selected from one of the employes of the mine. This matter I then left with the miners, who were instructed to call a meeting and take it up with Mr. Seiple the next morning. As they did not telephone me that he had refused their demands. I concluded that a check weighman had been put on; this being the arrangement made between the miners and myself.

I was informed by the miners that Mr. Dahlby, superintendent of the Green Canon mine, had discharged three committeemen who had asked him to put such check weighmen on. I interviewed Mr. Dahlby about this, and he informed me that two of the men who were discharged were not on the committee. In fact, one of the men, who claimed he was discharged, had quit work of his own accord two days before. One man who was on the committee was discharged for not working. The superintendent claimed that he was not to be depended upon. The other man who claimed he

was discharged had never been to the superintendent in the capacity of a committeeman at all. In fact, Mr. Dahlby stated that it was the first intimation that the man—Mr. Lloyd—was on any committee to wait upon him. He had been discharged for laying off at will, when men were needed. One of the committeemen, Mr. Dahlby informed me, was a good, steady worker, and was still at work in the mine. The other committeeman was the man layed off for not working steady. These two were the only men that waited upon him.

Mr. Dahlby takes the same stand as Mr. Seiple in regard to who shall be appointed as check weighman, they claiming that it must be one of the employes of the particular mine where the

check weighman is wanted.

As I have found that there were men working at the respective mines whom the miners considered competent. I instructed them to choose a check weighman from one of their number, and report if results were unsatisfactory.

Respectfully submitted,

(Signed) GEORGE R. HOWE,

Deputy Factory Inspector.

LAUNDRY AT THE HOUSE OF THE GOOD SHEPHERD

Denver, Colo., April 18, 1912.

Hon. Edwin V. Brake,
Deputy State Labor Commissioner,
Denver, Colo.

Dear Sir: In compliance with your orders to investigate conditions at the laundry of the House of the Good Shepherd, I

submit the following report:

Upon investigation I find that it is one of the best-guarded laundries in the city. The employes of the wash-room are all men, full-grown; the other employes are inmates—girls—of the home.

The mother superior informed me that on Monday mornings she has had girls as young as thirteen years of age at work as early as six o'clock. These girls would work until seven o'clock, when they would have breakfast, with an hour for recreation.

The younger girls are in the school in the morning as a rule, and do not work until after twelve o'clock, and then only until three in the afternoon, at which time they are given a lunch and a rest. She also informed me that she was not aware of the existence of the child-labor law, which does not allow children under the age of sixteen to work before seven in the morning and after eight o'clock in the evening. She assures me that in the future she will have no children violating this law.

I also find that this is a charitable institution. There are 321 girls. The receipts for tuition for these are only \$417, making

an average of slightly over one dollar for each girl confined in the home.

With this money, and that which is made from the receipts of the laundry, these girls—or at least a great many of them—are fed, clothed, and educated. The laundry is used more as an education for the girls than for profit. There is twice the amount of help for each particular operation that there is in an ordinary laundry. For instance, on the shake-table, where the ordinary laundry employs three girls, there are six at this place doing the same work. Their prices for work compare very favorably with those of other laundries; in fact, are higher for flat work, 50 cents per hundred being the cheapest work they take.

The mother superior informs me that as soon as they move to their new home they will discontinue doing flat work, except as it comes from homes or family washings, as she says it is only

done for the education of the children.

There are more than enough girls to do the work in the laundry; so the work is divided as equally as possible, in order that they may all receive instruction. For this reason, they are working very short hours at this time, and when the removal is made to the new home it is the intention of installing several other methods of teaching the girls various other occupations.

Respectfully submitted,

GEORGE R. HOWE, Deputy Factory Inspector.

The above investigation was ordered at the request of a committee of the Denver Trades Assembly, and the report of Inspector Howe sent to it. It was reported that the state laws were being violated at this place.

### VIOLATION OF ANTI-COERCION ACT

Colorado Springs, Colo., June 8, 1912.

Hon. Edwin V. Brake,
Deputy Labor Commissioner,
Denver, Colo.

Dear Sir: In compliance with your instructions to investigate the alleged violation of the anti-coercion law at Colorado Springs, I find that Mr. W. A. Dierolf, secretary of the Master Painters' Association, in the Rocky Mountain News of April 21, 1912, caused to be printed the following: "Men Wanted—Painters and paperhangers wanted by Master Painters' Association, W. A. Dierolf, secretary, 817 North Cascade Avenue, Colorado Springs." He failed to state that a strike existed, thus violating the false advertising law, which constitutes a violation of section 1 of that law, inasmuch as he failed to state that there was then existing a strike of the painters and paperhangers at this town.

I called upon Mr. A. E. Lower, of the Painters' Union, who lodged the complaint, and requested him to swear to an affidavit to be drawn up by the district attorney's office. This he refused to do, giving as his reason that he did not want to be the goat all the time. He tried to make me believe that it was our duty to swear to the affidavit; but knowing only from hearsay that a strike existed, and not being able to swear that Mr. Dierolf caused the advertisement to be printed during this lockout or strike, I refused to swear to the information. The Painters' Union all seemed to be very anxious that Mr. Dierolf should be prosecuted, but none were willing to swear to the information, and, after putting in the bigger part of the week, I finally succeeded in getting Mr. Butler, the president of the union, to swear to the information. I turned the affidavit and the warrant for Mr. Dierolf's arrest over to Mr. Butler, with the understanding that he was to file it June 8 in Justice Dunnington's court. I was informed by Assistant District Attorney Martin S. Burns that my presence was not necessary. The matter could have been adjusted much quicker had I not experienced the difficulty in getting signature to the complaint. I trust this will meet with your approval.

Respectfully submitted,

(Signed) FRED WEINLAND,
Deputy Factory Inspector.

### WAGE COLLECTION

The collection of wages due employes from employers, who for numerous causes are unwilling to pay, is a great portion of the work of the office force. This and the giving of advice, legal and otherwise, can be said to entirely take up the time of one person. This work was not contemplated in the law creating the Bureau of Labor Statistics, and indeed there is no warrant of law for it, and no way in which the department can enforce the payment of wages due, regardless of how just the claim may be. However, to correct injustices to those who labor for a living, this work was certainly implied in the law creating the department, and it has been cheerfully taken up, and by moral persuasion—our only weapon—the sum of \$37.961.05 has been collected in the last two years. When it is considered that the major portion of these claims is for small sums, the amount of work required to collect this amount can be readily seen. were no less than 1,546 claims taken up by the department, but this does not begin to number the amount of people who have called upon the office for assistance in this way. It is true that many complaints registered are unjust to the employer, and upon investigation it is usually shown that the difference arises either from a misunderstanding of the terms of employment, or from

a lack of knowledge of the rights of both parties. It is a common practice for unorganized laborers to make claims for overtime worked, and which should in justice be due them, but they have made no contract, when engaging for work, as to the number of hours per day they should work or the number of days in a week, which leaves them entirely at the mercy of the employer in this matter. This is only one of the many instances that are daily occurring wherein the department is compelled to instruct these people in the making of contracts, or agreements with employers, and inform them that, while they have a moral claim for the overtime wages due, they have no legal claim whatever and the department is unable to do anything to relieve them.

There is a small class of what may be termed, shiftless "ne'er-do-wells," who claim the attention of the department with preposterous claims which upon investigation are found to be without merit; but these should not be allowed to detract in any par
ticular from the hundreds of just claims from honest working
people. Some provisions should be made for legalizing the action
of the Commissioner in the prosecution of these cases, and thus
protect the interest of the wage-earner who is too poor to engage
the services of a lawyer, and for this reason often cheated out

of money that he has honestly earned.

There is a wise provision of the law that gives the right to a poor person to sue without cost. Mills' Annotated Statutes, No. 676, say: "If any court shall, before or after the commencement of any suit, be satisfied that the plaintiff is a poor person, and unable to prosecute his or her suit and pay the costs and expenses thereof, they may, in their discretion, permit him to commence and prosecute his action as a poor person; and thereupon such person shall have the necessary writs, processes and proceedings, as in other cases, without charge; and if the plaintiff recover judgment there shall be a judgment for his costs."

If the various justices of the peace would carry out the intent of this statute, the wage-beating phase of the industrial problem would be practically solved; but we find that the average justice has in the past been more solicitous in getting his fees for work performed than in doing justice to poor people, who should be his first care. With the abolishment of the fee system, and the putting of our justices of the peace on a salary basis, I believe that

a better condition would ensue.

The following table will give an insight into the business of wage-collecting done by the bureau in this respect alone, which is governed only by the law of humanity, and not by any statute enacted or in the law creating the Bureau of Labor Statistics:

### AGGREGATE AMOUNT OF CLAIMS FILED AND COLLECTED

Month	No. Claims	Amount	Amount
1911	Filed	Filed	Collected
January	86	\$ 2,590.92	\$ 1,202.27
February	76	2, 094.45	1,627.94
March	84	2,138.16	1,624.39
April	42	486.13	239.67
May	70	697.68	484.13
June	106	2,519.27	1,791.15
July	29	520.95	485.80
August	42	1,418.59	1, 284.53
September	63	1,506.97	1,219.57
October	55	1,108.42	940.52
November	65	1,539.45	1,139.55
December	68	1,810.45	1,526.35
Total	786	\$18, 431.44	\$13,565.87
Month	No. Claims	Amount	Amount
1912	Filed	Filed	Collected
January		\$ 1,665.30	\$ 1,315.72
February		2,738.05	2,535.66
March		1, 188.21	1,024.20
April		1,612.99	1,308.89
May		809.05	683.34
June		623.14	491.90
July		1, 540.91	1,398.01
		1,010.01	
August	62	1 485 55	
August		1,485.55 9.886.58	1,375.30
September	63	9,886.58	1,375.30 9,749.97
September October	63 68	9,886.58 1,931.10	1,375.30 9,749.97 1,619.89
September October November	63 68 72	9,886.58 1,931.10 1,965.69	1,375.30 9,749.97 1,619.89 1,659.78
September October	63 68 72	9,886.58 1,931.10	1,375.30 9,749.97 1,619.89

### REPORT ON STATE FREE EMPLOYMENT OFFICES

### DENVER FREE EMPLOYMENT OFFICE

Denver, Colo., December 20, 1912.

Hon. Edwin V. Brake, Denver, Colo.

Dear Sir: Attached find statistical report of the Denver branch of the Colorado Free Employment Bureau for the term just closed. In addition, I desire to add a few words of comment upon, and recommendation for, the improvement of the service.

I have endeavored to the best of my ability to so conduct the office that it might best perform its mission of bringing the man-

less job and jobless man in touch.

I find that the office does not get enough publicity. We should have a fund for advertising purposes, so as to present the services of the bureau to the large number of employers who do not now use it. The \$2,000 annual appropriation will only cover the expense of the three offices as now conducted in the strictest economy, and allows nothing to be spent in advertising.

I think that the efficiency of the bureau might be increased 50 per cent if a reasonable appropriation were made for adver-

tising purposes.

As to the general workings of the office, I find that this subject has been so fully covered by my predecessor as to need no

further attention at my hands.

I desire to pay a just tribute to the conscientious service performed by my assistant, Mrs. Imogene G. Clarke. A better selection for this bureau than Mrs. Clarke could not be made. The handling of female employment requires a world of tact and patience, if it is to be handled with any degree of satisfaction to the employer and employe. These traits Mrs. Clarke has shown in a remarkable degree. Besides a natural intelligence, she brings several years' training to bear on the work.

Respectfully submitted,

(Signed) ELI M. GROSS, Superintendent.

### DENVER-MALE

		Applications		\ nnl	iantions	
		Applications			Applications for Help	
Chamactan	No.	for Employment No. Positions		No.	No.	
Character of Employment	Filed	Secured	No. Un- filled	Filed	Unfilled	
Beet fields		42		70	28	
Bakers		6	14	6		
Bell boys		16	48	16		
Bus boys		28	66	28		
Clerks		10	22	10		
Coal-shovelers		52	46	52		
Cooks		258	334	276	18	
Celery work		60		90	30	
Carpenters		38	304	9.5		
Cement workers		32	142	38		
•		190	310	214	28	
Dairy hands					28	
Dishwashers		320	390	348		
Engineers		• • •	172			
Electricians		4	70	* * * *		
Elevator pilots		4	10	4		
Firemen		4	48	4		
Fruit-pickers		370	330	370		
Farm hands	ŕ	758	1,616	\$26	68	
Gardeners		16	70	16		
Hay hands		66	10	90	24	
Hotel work		2		2		
Housemen		146	236	136	10	
Janitors		26	252	26	* * * *	
Kitchen men		252	382	274	18	
Lumber men		1	60	4	* * * *	
Lawn men		14	56	14	* • • •	
Laborers	9,660	1,930	7, 730	1,930		
Machinists	. 31	4	30	4		
Nurses			20			
Pantry men	. 86	22	64	22		
Porters	. 226	41	182	41	* * * *	
Rock men	. 80	26	54	26		
Stable men	. 34	14	20	10	4	
Section men	. 140	140		168	28	
Solicitors	. 36	20	16	, 36	16	

### DENVER-MALE

	Applications			Appli	Applications		
			for Employment		for	for Help	
	Character	No.	No. Positions	No. Un-	No.	No.	
of	Employment	Filed	Secured.	filled	Filed	Unfilled	
Team	sters	62	22	40	22		
Waite	ers	452	186	266	186		
Yard	men	308	158	150	174	16	
То	tals	18,840	5,280	13,560	5,568	316	

### DENVER-FEMALE

Applications				Applications	
•		for Employment		for	Help
Character	No.	No. Positions	No. Un-	No.	No.
of Employment	Filed	Secured	filled	Filed	Unfilled
Beet fields	. 10	10		24	14
Cooks	. 380	328	52	334	6
Celery work	. 36	36	• • • •	50	14
Chambermaids	. 276	232	44	246	14
Day work	. 216	186	30	192	6
Domestics	. 144	120	24	130	10
Dishwashers	. 238	228	10	262	34
Fruit-pickers	. 58	58		100	42
Housework	. 1,086	1,052	34	1,098	46
Hotel work	186	142	44	144	2
Housekeepers	192	130	62	130	
Hospital work	370	306	64	306	••••
Janitors	20	4	16	4	• • • •
Kitchen work	20	10	10	10	• • • •
Laundresses	152	130	22	134	4
Miscellaneous	378	378	• • • •	398	20
Maids	58	48	10	52	4
Nurses	86	48	38	50	2
Pantry girls	34	24	10	26	2
Ranch women	204	170	34	186	16
Restaurants	238	188	50	196	8
Sewing girls	2	2		2	
Waitresses	314	249	74	278	38
Totals	4, 698	3,070	1,628	4,352	282

### DENVER

	Applications		Applications	
	for Employment	t	fo	r Help
No.	No. Positions	No. Un-	No.	No.
1911 Filed	Secured	filled	Filed	Unfilled
January—				
Male 420	310	110	342	32
Female 244	234	10	254	20
February—				
Male 1,505	139	1,366	139	* * * *
Female 173	137	36	137	• • • •
March—				
Male 1,089	258	833	258	• • • •
Female 182	130	52	130	
April—				
Male 342	273	68	316	43
Female 231	211	20	234	23
May-				
Male 1,552	203	1,349	203	* * * *
Female 195	139	• 56	157	18
June-				
Male 930	185	745	185	
Female 196	168	28	178	10
July-				
Male 1,284	292	992	292	
Female 146	139	7	154	15
August—				
Male 1,089	258	833	258	
Female 182	130	52	130	
September—				~
Male 554	148	406	156	8.
Female 158	132	26	132	
October—				
Male 661	181	480	181	
Female 181	145	36	145	
November—				
Male 920	185	745	185	
Female 196	168	28	178	10
December—				
Male 1,505	139	1,366	. 139	
Female 173	137	36	137	

### DENVER

		Applications		Appl	ications
		for Employment		for	Help
	No.	No. Positions	No. Un-	No.	No.
1912	Filed	Secured	filled	Filed	Unfilled
January—					
Male	661	181	480	181	
Female	181	145	36	145	* * * *
February—					
Male	509	341	169	369	28
Female	247	232	15	242	10
March—					
Male	217	207	10	246	<b>3</b> 9
Female	200	100	100	,100	• • • •
April—		•			
Male	351	123	227	123	••••
Female	196	178	18	184	6
May-					
Male	1,505	139	1,366	139	
Female	175	137	36	137	• • •
June—					
Male	342	273	68	316	43
Female	231	211	20	234	23
July—					
Male	421	310	111	342	32
Female	244	234	10	254	20
August—					
Male	342	273	68	316	43
Female	281	211	20	234	23
September—		•			
Male	509	341	169	369	28
Female	247	232	15	242	10
October—					
Male	331	261	68	294	44
Female	217	207	10	246	39
November—					
Male	351	123	227	123	••••
Female	196	178	18	184	6

### COLORADO SPRINGS FREE EMPLOYMENT OFFICE

Colorado Springs, Colo., November 30, 1912.

Hon. Edwin V. Brake, State Labor Commissioner, Denver, Colo.

Dear Sir: I beg leave to submit the following report of the business transacted by this office, and on labor conditions in this district, during my incumbency, since September 15, 1911.

The supply of labor has been sufficient to meet all demands, except during the summer months of this year, when we were short of competent men and were unable to find them anywhere The calls for men were particularly urgent from the various railroads, whose low wage scale offers small inducements when other work is available.

The winter months of 1911-1912 were very quiet in this district, many men being unable to find employment sufficient to provide the necessaries of life.

During this period we were greatly assisted by the Associated Charities and the police department, which provided meals, lodg-

ing, and other greatly appreciated help.

During the year this office has been called on by many people who had difficulty in securing satisfactory settlement for work done, and we are pleased to say that in every case settlement was made without resort to the courts. We believe this feature is one of the best in connection with this department, as these workers are nearly always without means to force a settlement with their employers.

I wish here to call your attention to the great need of a law in this state compelling employers to pay their help when discharged, either in cash or negotiable paper. The present system is that of time or pay checks which can be cashed only at usually distant points and at some future date, working great hardship, and loss of time as well.

There have been but few violations of the eight-hour law on public work in this district during the past year, and in all cases immediate observance of the law was secured as soon as parties were notified.

While the urgent need of larger appropriations for the free employment offices has been placed before our legislatures for several sessions, we feel the necessity of again calling their attention to our most noticeable needs, viz.: funds for advertising, to keep the wants and business of these offices before the public at all times, and for long-distance telephone service. We also should have a small allowance for messenger service.

The extensive use of telephones in the rural districts makes it very convenient for the farmers to call this office for any help needed, and our report will show a large number of workers being

sent out on this class of work. We are greatly inconvenienced in not having sufficient funds to make full use of long-distance telephones to keep in touch with this class of work.

Many inquiries come to this office from all sections of the country regarding labor conditions, to all of which we reply at length. We also have many inquiries as to the working out of our labor laws; these latter usually from educational institutions and labor organizations, proving that our Colorado laws are attracting attention.

The fact that all crafts of mechanics in this district are thoroughly organized, and prepared to take care of their membership, relieves this office of many of that class of workers, and we are under many obligations to these organizations for assistance tendered in placing their members.

We also wish to thank the local officials of the Denver & Rio Grande and Midland Railroads for many courtesies extended to our office, in assisting the needy unemployed to reach localities where work could be secured.

### Respectfully submitted,

(Signed) W. C. DAILY, Superintendent.

### COLORADO SPRINGS-MALE

		Applications		Appl	ications .
		for Employment	t	for	Help
Character	No.	No. Positions	No. Un-	No.	No.
of Employment	Filed	Secured	filled	Filed	Unfilled
Agents	. 2	2		2	
Butlers	. 2	2	• • • •	2	
Bell boys	. 18	18	• • • •	24	6
Baker helper	. 1	1	• • • •	1	
Bakers	. 46	35	11	35	
Buss boys	. 64	64		77	13
Blacksmiths	. 2	2		2	
Bill distributors	. 35	35		35	
Bricklayers	. 3	పి		3	
Box-makers	. 5	. 5		5	
Charcoal-burners	. 2	2		2	
Concrete men	. 141	141		166	25
Corn-cutters	. 19	19		26	7
Cement workers	. 3	3		3	
Chefs	. 12	12	1	12	
Coachman	. 1	1		1	
Cooks	. 176	153	23	162	9
Collector	. 1	1		1	• • • •

### COLORADO SPRINGS-MALE

		Applications		Appli	cations
		for Employment		for	Help
Character	No.	No. Positions	No. Un-	No.	No.
of Employment	Filed	Secured	filled	Filed	Unfilled
Carpenters	93	81	12	81	
Delivery men	12	2	10	2	
Dishwashers	283	245	38	245	
Dairymen	10	9	1	9	
Elevator boys	4	4		4	
Engineers	15	14	1	. 14	
Electricians	1	1		1	
Firemen	51	38	13	34	7
Foresters	148	148		148	
Fruit-pickers	16	16		40	24
Florists	7	7		ī	
Garage helpers	5	5		5	
Gardeners	119	119		119	
Housemen	405	398	<del>~</del>	398	
Herders	10	10		10	
Horseshoers	5	5	* * * *	5	
Hotel clerks	4	4		4	
Hod-carriers	6	6		6	
Janitors	63	<b>5</b> 3	10	53	
Kitchen help	82	72	10	72	
Kennel. men	6	6		6	
Lawn men	131	131		131	
Laundry men	4	4	* * *	4	
Laborers	3, 796	3, 1\$5	611	3, 469	399
Messengers	8	8		8	
Miners	16	16		16	* * * *
Milkers	144	135	9	136	1
Nurse	1	1		1	
Porters	88	84	4	S4	
Painters	8	2	6	2	
Pantry men	61	59	2	59	
Plumbers' helpers	3	3		3	+ + o -
Pin boys	16	16		16	
Ranch help	742	689	44	785	87
Roofers	24	24		24	* * * *
Rockmen	49	49		55	6

### COLORADO SPRINGS-MALE

		Applications		Appl	ications
		for Employment		for	Help
Character	No.	No. Positions	No. Un-	No.	No.
of Employment F	'iled	Secured	filled	Filed	Unfilled
Stone masons	6	6		11	5
Salesmen	2	2		2	
Steamfitter	1	1		1	• • • •
Store clerks	45	18	27	18	• • • •
Section men	219	219	,	358	139
Section foremen	4	4		4	
Sheep-herders	13	13		13	
Solicitors	69	55	14	55	• • • •
Stable men	27	27		30	3
Teamsters	314	279	35	329	50
Team and drivers	117	105	12	114	19
Timber men	17	17		22	5
Tie-cutters	5	5		5	
Valets	2	2		2	
Watchman	1	1	• • • •	1	
Waiters	136	126	10	126	•
Yardmen	83	. 83		83	• • • •
_					
Totals	8,030	7, 120	910	7,789	805

### COLORADO SPRINGS—FEMALE

Applications			Applications			
		for Employment			for Help	
Character	No.	No. Positions	No. Un-	No.	No.	
of Employment	Filed	Secured	filled	Filed	Unfilled	
Agents	3	3	• • • •	3	••••	
Cashiers	6	G		/ G		
Clerks	2	2		2		
Chambermaids	379	315	33	332		
Cooks	484	489		510	3	
Dishwashers	113	111	2	111		
Day work	829	764	113	728	• • • •	
Emergency	3	Ĵ		3	• • • •	
Fruit-packers	8	8		8	• • • •	
Floor girls	24	24		28	4	

### COLORADO SPRINGS—FEMALE

		Applications		Appl	ications	
		for Employment		for	for Help	
Character	No.	No. Positions	No. Un-	No.	No.	
of Employment	Filed	Secured	filled	Filed	Unfilled	
General housework	1,133	1,152	17	1,156	74	
Housekeepers	43	38	8	35		
Housemaids	8	. 8		8		
Kitchen help	104	98	26	88	4	
Linen room	4	4		4		
Laundry	294	271	20	271		
Nurses	99	101	2	102	1	
Pastry cooks	5	5		5		
Pantry girls	87	- 87	* * *	87		
Pressing and cleaning	2	- 2		2		
Scrub women	9	9		9		
Second girls	194	171	18	169	3	
Seamstresses	21	12	9	12		
Solicitors	1	4		4		
Waitresses	466	434	32	449	18	
-						
Totals	4, 324	4,121	280	4, 132	107	

### COLORADO SPRINGS

		Applications		Applications	
		for Employment		for Help	
	No.	No. Positions	No. Un-	No.	No.
1911	Filed	Secured	filled	Filed	Unfilled
January—		•			
Male	. 270	193	77	193	
Female	. 207	185	22	192	7
February—					
Male	. 203	181	22	181	
Female	. 146	134	12	134	
March-					
Male	. 226	198	28	198	• • • •
Female	. 186	186		186	
April—					
Male	. 266	194	72	195	1
Female	. 220	210	10	220	10

### COLORADO SPRINGS

		Applications		Appl	lications
		for Employment		fo	r Help
•	No.	No. Positions	No. Un-	No.	No.
1911	Filed	Secured	filled	Filed	Unfilled
May-					
Male	385	333	52	333	* * * *
Female	275	275		285	10
June-					
Male	329	297	32	297	
Female	305	305		305	
July-					
Male		297	* * * *	297	
Female	395	344	51	359	15
August—					
Male	266	266		266	
Female	346	346		346	
September—					
Male	401	367	34	369	2
Female	200	195	5	195	
October—					
Male	313	288	25	288	• • • •
Female	89	87	2	87	
November—					
Male	278	197	81	197	
Female	90	90	3	90	* * * *
December—.					
Male	251	173	78	173	* * * *
Female	77	77		79	2
1912					
January—					
Male		295	40	295	
Female	126	122	4	122	
February—					
Male		195	126	195	• • • •
Female	103	103		103	• • • •
March-					
Male		236	68	236	
Female	95	90	5	90	

### COLORADO SPRINGS

•		Applications		Appli	cations
		for Employment		for	Help
N	0.	No. Positions	No. Un-	No.	No.
1912 Fi	led	Secured	filled	Filed	Unfilled
April—				•	•
Male	547	424	123	434	. 1.0
Female	112	101	11	101	
May-					
Male	696	622	74	622	
Female	235	224	11	230	G
June-					
Male	553	463	90	463	
Female	232	195	37	198	3
July-					
Male	560	558	<u>·)</u>	741	183
Female	190	190	* * * *	195	5
August—					
Male	543	538	ō	763	225
Female	262	262		288	26
September—					
Male	495	482	13	705	223
Female	223	223		223	
October—					
Male	513	487	26	638	154
Female	134	115	19	115	
November-					
Male	281	210	71	210	
Female	95	6-4	31	61	

### PUEBLO FREE EMPLOYMENT OFFICE

Pueblo, Colo., December 1, 1912.

Hon. Edwin V. Brake, Deputy Labor Commissioner, Denver, Colo.

Dear Sir: I am herewith enclosing my report of the business transacted in this office during the past biennial term—the number of applications for employment, the number of situations secured, the number of applications for help received, and the number persons secured for employers during that period.

As you will notice by this report, the amount of business done in this office during the past two years greatly exceeds that done during the previous two years. While the industrial situation for the past two years has been very good, it is not that alone that is the cause of the increase of business of this office. The employers of labor are gradually becoming aware of the fact that they can obtain help absolutely free of charge to both the employer and employe, and are availing themselves of our service, with the result that there has been a very large amount of business done in this office during the past summer and fall months.

During the months of June, July, August, September, and October of this year we have had calls for all the help, in the line of ranch, construction, and railroad work, that we could possibly

furnish.

One evil with which we have been afflicted, that has been a detriment to the benefits which the employers would have secured from this office, is the failure of persons who have applied to this office for employment, and secured it, to report to the employer and to notify this office that they had not taken the positions secured here. This is an evil for which there seems to be no remedy, and I have at this time no recommendation to make that would remedy it. There is also another evil which might be corrected by an amendment to the law creating these offices. is the failure of persons who have secured employment at this office in positions out of the city, and where transportation has been furnished by the employer, to report to the employer who furnished the transportation, and who have thus defrauded the employer out of the transportation, besides disappointing him, and bringing discredit on the office through which they secured the employment.

I believe a law should be passed making it a misdemeanor for a person to accept transportation to his place of employment. and then fail or refuse to go to work. But there should, of course, be a written agreement as to the wages and conditions of such

. employment.

This would act as a check on those persons who, in order to enable themselves to travel over the country, would defraud employers furnishing them with employment, and transportation to same, and thus bring discredit on the office through which they were furnished the position free of charge.

This office has been hampered in its work during the past term by the lack of sufficient appropriation by the legislature to properly maintain it. It is absolutely necessary that a suitable office be maintained in the business part of the city, with suitable facilities to properly handle the rapidly increasing business of the office.

Respectfully submitted,

(Signed) L. A. TANQUARY, Superintendent.

### PUEBLO-MALE

		PUEDLO-MAL	E		
`		Applications	- 1	Appl	lications
		for Employment		fo	r Help
Character	No.	No. Positions	No. Un-	No.	No.
of Employment	Filed	Secured	filled	Filed	Unfilled
Bakers	. 4	4		4	
Barbers	. 325	285	40	310	25
Bell boys	. 34	19	15	19	
Beet-thinners	. 64	64		110	46
Boilermakers	. 6	2	4	2	* * * *
Buss boys	. 106	64	42	64	
Blacksmiths	. 32	22	10	25	3
Blacksmith helpers	. 23	13	10	13	
Butchers	. 6	2	4	2	• • • •
Cowboy	. 1	1		1	
Clerks	. 80	40	40	40	
Celery work	. 37	37		37	
Canvassers	. 72	59	13	107	48
Carpenters	. 167	130	37	157	27
Cement men	. 105	95	10	91	6
Cleaning	. 91	33	58	43	10
Coal-miners	. 78	65	10	68	
Concrete men	. 46	22	24	22	
Cooks	. 349	257	92	249	4
Dishwashers	. 592	347	245	347	
Dairymen	. 207	180	27	194	14
Decorators	. 9	2		2	
Distributors	. 10	4	6	-1	
Elevator pilots	. 20	12	8	12	
Engineers	. 2	2	* * *	2	
Foundry help	. 18	16	2	16	* * * *
Firemen	. 12	6	6	6	
Factory help	. 10	9 9	7	3	
Grocery clerk	. 1	1		1	
Gardeners	. 13	11	2	11	
Hall men	. 10	4	6	4	
Housemen	. 28	17	11	17	
Hay hands	. 357	327	30	336	19
Irrigators	. 80	62 -	18	66	4
Janitors	. 49	20	29	20	
Kitchen men	. 35	19	16	19	

### PUEBLO-MALE

	•	Applications		Appli	ications
		for Employment		for	Help
Character	No.	No. Positions	No. Un-	No.	No.
of Employment	Filed	Secured	filled	Filed	Unfilled
Laborers	4,609	2,807	1,802	3, 575	768
Lumber men	88	77	11	79	4
Laundry help	4	4		4	• • • •
Machinists	10	1	9	1	
Messengers	5	ā	• • • •	5	
Office boys	14	5	9	5	
Orderly	24	18	6	18	
Plasterers	3	3		3	
Painters	7	7		7	
Porters	84	59	25	29	
Quarry men	776	700	76	950	250
Ranch hands	1, 408	1,047	461	1,031	66
Scrubs men	, 10	4	6	4	
Salesmen	30	3	27	3	
Section hands	1,420	1,273	147	2,708	1,437
Stable men	15	12	3	12	
Sheep-herders	34	32	2	33	1
Sawmill men	91	83	8	86	3
Silver men	3	3		3	
Solicitors	34	26	8	34	8
Steel-mill works	209	180	29	831	651
Tile-layer	1	1		1	
Team and driver	1	1		1	
Teamsters	590	501	89	894	393
Waiters	167	114	53	126	12
Wood-choppers	2	2		2	
Yardmen	38	22	16	22	
Totals	12, 759	9, 250	3, 509	12, 521	3, 799

### PUEBLO-FEMALE

		Applications		Appl	ications
		for Employment		fo	r Help
Character	No.	No. Positions	No. Un-	No.	No.
of Employment	Filed	Secured	filled	Filed	Unfilled
Chambermaids	. 395	282	115	290	10
Cooks	. 321	296	25	344	48
Cashiers	. 18	4	14	4	
Companions	. 6	2	4	2	
Clerks	. 86	25	61	25	
Canvassers	. 25	25		50	25
Dishwashers	. 83	72	11	68	6
Housework	. 613	608	5	688	107
House-cleaning	. 75	68	7	68 <sup>-</sup>	
Housekeepers	. 20	ā	15	5	
Kitchen help	. 68	53	15	56	2
Laundry help	. 32	24	8	28	4
Nurses	. 41	31	10	31	•
Pantry girls	. 13	9	4	9	* * * *
Seamstresses	. 31	20	11	20	
Scrubbing	. 6	6		8	2
Stenographers	. 25	12	13	12	
Silver girls	. 2	2		9	
Waitresses	. 420	400	20	489	31
Totals	. 2,280	1,941	<b>33</b> S	2, 199	286

### PUEBLO

			Applications		Appl	ications
			for Employment		For	Help
		No.	No. Positions	No. Un-	No.	No.
19	11	Filed	Secured	filled	Filed	Unfilled
Jan	nuary—					
	Male	. 372	132	260	140	8
	Female	. 92	88	4	128	40
Feb	oruary—					
	Male	. 370	86	284	86	
	Female	. 112	108	4	120	12
Ma	reh—					
	Male	. 231	121	110	122	1
	Female	. 112	103	9	115	12

### PUEBLO

		Applications		Appl	ications
		for Employment		for	Help
	No.	No. Positions	No. Un-	No.	No.
1911	Filed	Secured	filled	Filed	Unfilled
April—					
Male	. 292	150	142	150	
Female	. 80	72	8	84	12
May→			•		
Male	. 308	228	80	232	4
Female	. 84	80	4	98	18
June-					
Male	. 436	226	210	226	• • • •
Female	. 64	64		83	19
July-					
Male	. 478	155	323	155	• • • •
Female	. 117	81	36	99	18
August—					
Male	. 242	99	143	99	• • • •
Female	. 108	100	8	116	• 16
September—					
Male	497	189	308	189	••••
Female	. 92	79	13	91	14
October—					
Male	457	259	192	259	• • • •
Female	. 83	49	34	49	• • • •
November—					
Male	216	140	76	142	2
Female	65	46	19	46	• • • •
December—					
Male	348	153	195	153	• • • •
Female	. 83	58	25	68	10
1912					
January—					
Male		133	139	133	• • • •
Female	. 83	77	6	91	14
February—					
Male	342	142	200	142	
Female	. 118	92	26	92	

### . PUEBLO

,	Applications		Appl	ications
	for Employment		for	Help
No.	No. Positions	No. Un-	No.	No.
1912 Filed	Secured	filled	Filed	Unfilled
March—				
Male 292	137	155	175	39
Female 72	62	10	70	8
April—				
Male 252	186	66	191	5
Female 90	79	11	101	22
May—				
Male 338	283	55	331	48
Female 117	105	12	117	12
June— .				
Male 564	528	36	962	434
Female 82	67	15	_ 87	20
July-				
Male 1,033	1,010	23	1, 455	445
Female 111	90	21	103	13
August—				
Male 1,180	1,158	22	2,086	928
Female 127	105	22	115	10
September—				
Male 1,381	1,336	45	2, 143	807
Female 108	95	13	98	3
October—				
Male 1,515	1,493	22	2, 379	\$86
Female 162	153	9	162	9
November—				
Male 1,249	816	433	989	173
Female 150	117	33	124	7

### RECAPITULATION

·	Applications		Appli	cations
	for Employment		for	Help
No.	No. Positions	No. Un-	No.	No.
Filed	Secured	filled	Filed	Unfilled
Denver—				
Male18,840	5, 280	13,560	5, 568	316
Female 4,698	3,070	628	4, 352	282
Colorado Springs-				
Male 8,030	7, 120	910	7, 789	805
Female 4,324	4, 121	280	4, 132	107
Pueblo—				
Male12,759	9, 250	3,509	12,521	3,799
Female 2,280	1,944	338	2,199	286
			•	
Grand totals50,931	30, 785	19, 225	36, 561	5, 595

### CHAPTER III

### LABOR ORGANIZATIONS, OF COLORADO

### INTERNATIONAL UNION HEADQUARTERS

Western Federation of Miners-Charles H. Moyer, President; Ernest Mills, Secretary-Treasurer; offices, 605 Railroad Building, Denver.

### STATE LABOR BODIES

(To Federate the Unions That They May Work as a Unit.)

- Colorado State Federation of Labor-John McLennan, President; William T. Hickey, Secretary-Treasurer; offices, 411-412 Exchange Building, Denver.
- United Mine Workers of America, District No. 15, comprising the States of Colorado, Utah, and New Mexico—Thomas Williams, President; Edward Doyle, Secretary-Treasurer; John Lawson, National Executive Board Member; offices, 514 Barclay Block, Denver.
- Barbers' State Association—Elias Anderson, Secretary-Treasurer; office, Pueblo. International Association of Machinists, District Lodge No. 20—Thomas F. Walsh, Secretary-Treasurer; office, 767 South Clarkson Street, Denver.

### LOCAL CENTRAL LABOR BODIES

(Composed of Delegates from Local Unions.)

- Alamosa, Trades Assembly-J. A. Harris, Secretary: Box 532.
- Colorado Springs, Building Trades Council—James Hildrich, Secretary: 633 North Franklin Street.
- Colorado Springs, Federated Trades Council—Charles Hastings, Secretary; 443

  Cooper Avenue.
- Cripple Creek District, Trades Assembly-John Turney, Secretary: Victor.
- Denver, Allied Printing Trades Council—Thomas P. Rodgers, Secretary; Quincy Building; Box 1447.
- Denver, Building Trades Council-Charles P. Austin, Secretary; 2541 Kensing
- Denver, Trades and Labor Assembly-J. F. Bedford, Secretary; Box 1372.
- Denver, Union Label League-Ed. J. Hines, Secretary; Box 759.
- Fort Collins, Labor Assembly-C. E. Moore, Secretary; Box 1017.
- Grand Junction, Trades Assembly-E. R. Miller, Secretary; 124 West Fifth Street.

Montrose, Trades and Labor Assembly—George Harrison, Secretary; Montrose. Pueblo, Allied Printing Trades Council—H. E. Reynolds, Secretary; 1419 East Tenth Street.

Pueblo, Building Trades Council—W. W. Castles, Secretary; 114½ East Fourth Street.

Pueblo, Trades and Labor Assembly—Jesse E. Holt, Secretary; Box 462.

Pueblo, Union Label League—Ed. Anderson, Secretary; 179 North Union Avenue.

Silverton, Trades and Labor Assembly—Norman Cameron, Secretary; Box 168.

Trinidad, Trades Assembly—J. W. Wolff, Secretary; 801 Garfield Avenue.

### LOGAL UNIONS IN COLORADO

Name Location Membership	mbership	Secretary
Bakers and Confectioners	00	Ray E. Lowderback
Bakers and ConfectionersPueblo 50	0.	A. J. DisslerBox 162
	1	
	210	
Barbers (Journeymen)Canon City	15	M. C. Maxwell619½ Main St.
Barbers (Journeymen)	હ	A. A. Purdon
Barbers (Journeymen)	22	C. C. McKahan117 E. Bennett Ave.
Barbers (Journeymen)	00	John E. Connelly
Barbers (Journeymen)Durango 15	9	R. L. Hollenborn449 4th Ave.
Barbers (Journeymen)Florence 10	0	O. L. Ryan104 S. Pikes Peak Ave.
Barbers (Journeymen)Fort Collins 15	10	C. E. Morrison112 Trimble Court
Barbers (Journeymen)	œ.	R. M. Woodworth531 Main St.
Barbers (Journeymen)	20	M. L. LineweaverBox 667
Barbers (Journeymen)Pueblo 80	9	Ed. Anderson219 N. Union Ave.
Barbers (Journeymen)	ıa	F. F. Ferguson108 E. 1st St.
Barbers (Journeymen)Trinidad 50	0	Karl Bower
hansa	Ī	
	619	
BartendersAlamosa 25	ſĠ	H. B. WileyAlamosa
BartendersColorado City 25	iĞ.	John Greenwald512 Colorado Ave.
BartendersCripple Creek District 25	rg.	Roy Tiffery27 Bennett Ave., Cripple Creek

# LOCAL UNIONS IN COLORADO—Continued

Name Location 1	Location Membership	Secretary
BartendersDenver	250	Fred Wessel1031 17th St.
BartendersLeadville	40	
BartendersPueblo	125	George MurphyBox 626
BartendersSalida	25	R. R. CopelandBox 483
BartendersSilverton	25	George L. McCoyBox 203
•	ì	
	540	
Beer Bottlers and DriversDenver	06	Ernest Kemmler938 9th St.
Beer Drivers, StablemenDenver	125	Ernest Kemmler938 9th St.
Brewery Workers	90	Ernest Kemmler938 9th St.
Brewery WorkersLeadville	10	Wallace McCarthy311 Elm St.
Brewery WorkersPueblo	08	Arthur Olson920 Damson St.
	1	
	395	
Bindery WomenDenver	19	Miss Mattie Hoffman
	1	
	<u>1</u> 2	
BlacksmithsAlamosa	35	G. E. MayfieldBox 321
BlacksmithsColorado City	50	Ben Norling
Blacksmiths and HelpersDenver	170	John Mauro3737 Osage St.

Blacksmiths and HelpersPueblo	20	H. Gerrish231 Oneida St.
BlacksmithsSalida	50	C. C. WagelSalida
BlacksmithsTrinidad	20	Charles C. Clelland316 Johnson Ave.
	1	
	201	
Boilermakers	0.7	Charles DarlingBox 624
BoilermakersColorado City	! Ĉ	Carl West16 Lincoln Ave.
BoilermakersDenver	150	11. S. Shaffroth3742 Wyncoop St.
BoilermakersGrand Junction	30	E. H. FriendArgyle Hotel
BoilermakersPueblo	01	George S. Warder408 B. Routt Ave.
BoilermakersSalida	÷.	William Dargavel821 E. St.
BoilermakersTrinidad	2	Thomas Love311 Godding Ave.
	1	
	305	
BookbindersColorado Springs	18	E. E. Lesh528 N. Weber
BookbindersDenver	5	R. Y. Harrison1176 S. Logan St.
	1	
	88	
Bricklayers and MasonsAlamosa	16	Charles P. SwitzerBox 171
BricklayersColorado Springs	238	H. A. DumbarBox 331
BricklayersDenver	275	H. A. McCordBox 176
BricklayersDurango	10	George Weaver1743 W. 2nd Ave.
Bricklayers and MasonsFort Collins	10	A. D. Michaud500 Stover St.

## LOCAL UNIONS IN COLORADO—Continued

		}
Name Location Me	Membership	Secretary
BricklayersFlorence 18	15	; ;;;
Bricklayers and MasonsFort Morgan	11	el.
BricklayersMontrose 18	15	
Bricklayers and MasonsPueblo 50	20	Arthur JonesBox 548
Bricklayers and MasonsTrinidad 30	30	F. L. Fox212 Broom St.
	1	
	461	
Brick, Tile and Terra-Cotta WorkersDenver	io	W. W. Galchouse2953 W. Denver Place
	175	
Bridge and Structural Iron Workers	0	R. T. McAdams
Bridge and Structural Iron WorkersPueblo	10	W. E. PalmerBox 1086, Station A
	ľ	•
	95	
Broom and Whisk Makers	ıo	W. J. Selzer, Jr3455 Lawrence St.
Broom and Whisk MakersPueblo	ನಿ	S. P. Myers122 Block West
	1	
	09	
Building LaborersColorado Springs 15	ro	George C. Richards616 Sierra Madre
Building Laborers	0	Charles Triplett2420 16th St.

Building Laborers (Int.)	ලි වී	James YargerBox, 73 W. A. Shaff812 3rd Ave.	c, 73
Building LaborersFort Collins	10	James Fallon516 W. Magnolia Ave.	rve.
Building LaborersPueblo	28	W. W. Smith1510 Jackson St.	St.
	515		
Carmen (Brotherhood of Railway)Alamosa	35	Curtis ManleyBox 332	332
Carmen (Brotherhood of Railway)	24	T. T. SandersonBox 774	774
Carmen (Brotherhood of Railway)	f. <del>c</del>	J. S. De Haase374 Marion St.	St.
Carmen, Coach and Car BuildersDenver	72	E. C. Simmons401 Club Bldg.	ldg.
Carmen (Brotherhood of Railway)Grand Junction	09	C. B. Kennet441 Rockway	vay
Carmen (Brotherhood of Railway)Leadville	38	W. C. VogelBox 158	158
Carmen (Brotherhood of Railway)Pueblo	210	D. L. York315 E. Abriendo Ave.	ve.
Carmen (Brotherhood of Railway)	2.0	W. W. ParksLa Junta	ınta
Carmen (Brotherhood of Railway)Salida	19	18. J. Sibley549 E. 2nd St.	St.
	209		
CarpentersAlamosa	35	M. P. KneifelBox 412	412
CarpentersBoulder	25	C. Michels Boulder	lder
CarpentersCanon City	15	C. R. Forsman113 S. 8th St.	St.
CarpentersColorado City	20	Ed. Martin808 Jefferson Ave.	.ve.
CarpentersColorado Springs	250	F. L. Frentz324 N. Custer Ave.	rve.
CarpentersCripple Creek	500 200	Ed. WalzBox 264	564

## LOCAL UNIONS IN COLORADO---Continued

Name . Location Membership	rship Secretary	Address
Carpenters, No. 55	William Stocker	1947 Stout St.
Carpenters, No. 1847	B. Dodds	38 W. Byers Place
Carpenters, No. 528	Robert Currie	1947 Stout St.
CarpentersFort Collins 30	W. M. Cooper	628 La Porte Ave.
CarpentersFort Morgan 25	J. S. Dean	Fort Morgar
CarpentersGrand Junction 75	S. O. Busket,	
CarpentersGreeley 35	John B. McAllister	1717 7th Ave.
CarpentersGolden 25	Michael Sweeney	Box 321
CarpentersLas Animas 25	J. C. Dorsey	Box 666
CarpentersLa Junta £5	W. W. Vanderim	116 Emerson Ave.
CarpentersLeadville 12	Alfred Pomeroy	
CarpentersLoveland 15	Charles Mather	
CarpentersMonte Vista 26	C. W. Chaney	Box 296
CarpentersMontrose 20	L. M. Preston	Box 692
CarpentersPueblo 202	Thomas A. Asher	1225 E. 10th St.
CarpentersRocky Ford 17	Charles S. Lane	806 S. 13th St.
CarpentersSalida 25	A. Sever	
CarpentersSilverton 10	F. J. Flynn	Box 434
CarpentersSterling 15	J. G. Schwalm	Sterling
CarpentersTrinidad 80	H. R. Kendall	153 Tillotson St.
CarpentersWalsenburg 18	Charles P. Hutchinson.	· · · · · · · · · · · · · · · · · · ·
ı	2,600	

1535 E. Alameda, Ave.			Box 542	1251 Stout St.	General Delivery	Box 592	107 Woodland Ave.			1530 Manitou Ave.	201 Railroad Bldg.	140 N. College Ave.	628 E. 3rd St.	Box 374			Box 122	Hub Clothing Co.	Dreyfus Clothing Co.	Golden Rule Co.	308 N. Main St.		
R. Hagelin			Fred Gardner	William Meisenbach	J. V. Hoffman	Н. С. Jolly	W. A. Taylor			H. G. Sewell	J. W. Sanford	S. H. Manning	John J. Listerman	James DalyBox 374			B. G. Stanwood	. W. Walker	F. J. Weithoff	J. H. Johnson	G. L. Beck		
_	13	3			٠				100	7		52	•			508		j		٠	Ü	180	
53	1		មា	<u>6</u>	15	10	10	į		07	007	÷9	85	13	Ì		08	92	ទ្រ	<u> </u>	50		
Carriage and Wagon MakersDenver			Cement WorkersColorado Springs	Cement WorkersDenver	Cement WorkersGrand Junction	Cement WorkersMontrose	Cement WorkersPueblo			CigarmakersColorado Springs	CigarmakersDenver	CigarmakersFort Collins	CigarmakersPueblo	CigarmakersTrinidad			Clerks (Retail)	Clerks (Retail)Colorado Springs	Clerks (Retail)Denver	Clerks (Retail)Fort Collins	Clerks (Retail)Pueblo		

## LOCAL UNIONS IN COLORADO—Continued

Secretary Roy Tiffery	Amos J. Allie1248 9th St.	F. C. Burford	G. D. Rogers314 Fox St.
Location Membership e Creek 10 Denver 125 Ilverton 25	160	30 150 20 150	600 ·
Name       Location Membership         Cooks (Journeymen)	Coopers	Electrical Workers	Elevator Constructors

F. Clark303 S. Prospect St.	II. S. PeregrineBox 467	James Dunhill	C. H. SpringerBox 376	•		Fannie Gotchy21 Quitman St.		C. V. Atkinson4735 Clay St.	•		F. B. Webster638 Mariposa St.	William R. Ellis17 W. 1st St.			J. F. Welch23 S. Cascade Ave.	James A. Kinsley1022 20th St.		•	J. Schneider1595 Julian St.		
					233		300			ह				99				35			20
18	135	40	40	1		38.	1	<b>F</b>	1.		00	9	1		15	50	1		20	ļ	
Engineers (Stationary)Colorado Springs	Engineers (Stationary)Denver	Engineers (Hoisting)Denver	Engineers (Stationary)Pueblo			Garment Workers		Glass Workers			Granite CuttersDenver	Granite CuttersSalida			HorseshoersColorado Springs	HorseshoersDenver			Ladies' TailorsDenver		

Name	Location Membership	Secretary
LathersColorado Springs	20	W. S. WaltonBox 908
LathersDenver	20	J. H. MitchellHotel Saxton
LathersPueblo	30	T. A. Dunlap1202 Brown Ave.
	Ì	
	100	
Laundry WorkersDenver	30	Ed. Peterson1130 12th St.
Laundry WorkersPueblo	95	Miss Huillen4171/2 Santa Fe Ave.
	1	
	65	
Leather Workers, Travelers' Goods	25	W. T. Deweese4985 Wyandot St.
Leather Workers, Harness MakersPueblo	10	John B. SeeleyBox 139
	1	
	99	
LithographersDenver	30	Al H. Zabel147 Tremont Place
	1	
	30	
Letter Carriers Association	150	F. W. AndersonPost Office
Letter Carriers AssociationPueblo	25	B. C. BenningPost Office
	ì	
	175	

s, Colorado Springs503 Club Bldg231 White Ave	816 Chestnut St.	okside, Florence Coal Creek Curtis Frederick	Gorham
	81(	Brookside,	
	W. Hughart	H. A. Rohe	Stewart
94	F. W. Hugh:	H. A. Rohe Felix Pogliano. Tony Butch William Fergus David Edwards James Kingdon	7. G. S
	910	. 12	
55 55 55 55 55 55 55 55 55 55 55 55 55	99   99	400 15 15 67 75	185
Colora Grand J	Newspaper Denver	Miners, Coal (U. M. W. of A.)	CoalGorhamCoalLa Veta
Machinists Machinists Machinists Machinists Machinists Machinists Machinists Machinists	Mailers,	Miners, Coal Miners, Coal Miners, Coal Miners, Coal	Miners, Coal Miners, Coal

Namo		Location Membership	Secretary
Miners, Coal		002	
Miners Coal			
2			
Miners, Coal	, CoalFansade	70	John Satterstrumrailsaue
Miners,	CoalSuperior	125	Angelo DandreaSuperior
Miners, Coal	, CoalTrinidad	009	Mike LivodaBox 116
		1	
		2,787	
Miners,	Miners, Metal (W. F. of M.)Cripple Creek	125	John TurneyVictor
Miners,	Miners, Metal, At LargeDenver	250	Tony RomeoBox 933
Miners,	Miners, MetalAspen	20	George SmithBox 1046
Miners,	Miners, MetalCentral City	. 20	John GormanBox 537
Miners,	Miners, MetalLeadville	250	Abe WaldronBox 3
Miners,	Miners, MetalOphir	08	James SpurrierOphir
Miners,	Miners, MetalOuray	35	A. M. PryorOuray
Miners	Miners (Smeltermen)Pueblo	300	Charlie PogorelioBox 755
Miners,	Miners, MetalRico	10	Harry E. FryBox 470
Miners,	Miners, MetalSalida	150	Frank H. NigroBox 527
Miners,	Miners, MetalSilverton	300	Roderick McKenzieBox 168
Miners	Miners, MetalTelluride	09	B. B. ShuteBox 278
Miners,	Miners, MetalCreede	20	George FultzBox 543
		1	
		1	

Molders, Iron, etc	100	William A. Sullivan875 Knox Court	
Molders, Iron, etcPueblo	윤	William Stoker1214 Brown Ave.	
	175		
	40	A. Shields1422 Curtis St. (T. M. A. Ha	
Moving Picture OperatorsPueblo	10	H. H. CurtisBox 225	
	26		
MusiciansAlamosa	30	Ernest Hanson513 State St.	~
MusiciansColorado Springs	110	H. P. RobinsonFirst Nat. Bank	
MusiciansCripple Creek	20	Ed. McClintock	
MusiciansDenver	300	F. J. Leibold1432 Arapahoe St.	
MusiciansDurango	30	W. T. OttonDurango	
MusiciansFort Morgan	30	D. J. VanBradt,Fort Morgan	
MusiciansGrand Junction	20	E. R. Miller124 W. 5th St.	
MusiciansLafayette	35	George Ranson, JrBox 65	
MusiciansLeadville	18	A. P. WillyLeadville	
MusiciansPueblo	90	J. W. SwearingerBox 378	
MusiciansSalida	35	J. W. MarifieldSalida	
MusiciansSilverton	18	Miss Lotta BlackSilverton, Box 508	
MusiciansTrinidad	09	Frank GlatzelBox 778	
	1		
	873		

Name	Location Membership	Secretary
Painters and PaperhangersAlamosa	15	C. A. BakerAlamosa
Painters and PaperhangersColorado Springs	75	Joseph Hildrich633 N. Franklin
Painters and PaperhangersDenver	480	Dwight Smith1655 S. Emerson St.
Painters, SignDenver	15	W. C. Rayer415 Club Bldg.
Painters and PaperhangersDurango	9	A. W. LeamingBox 642
Painters and PaperhangersGrand Junction	35	J. A. Quinn301 Rood Ave.
Painters and PaperhangersLa Junta	25	H. S. Downey318 Cimaroon St.
Painters and PaperhangersLeadville	10	Ed. C. Stewart17 Harrison St.
Painters and Paperhangers	292	II. L. LewisBox 386
Painters and PaperhangersPueblo	22	George WheatlandBox 161
Painters and PaperhangersTrinidad	30	E. Van Vleck800 Arizona Ave.
	791	
Pattern MakersDenver	. 25	J. W. VardieStr. Str.
	1	
	255	
Photo EngraversDenver	45	Chester J. Boettener1420 Lawrence St.
	1	
	45	
PlasterersDenver PlasterersColorado Springs	125	H. R. Jenkins

Plasterers	15	J. W. Billings
	151	
Plumbers and SteamfittersAlamosa	15	Frank BashamAlamosa
Plumbers and SteamfittersColorado Springs	50	W. H. Shideler901 S. Nevada Ave.
Plumbers and GasfittersDenver	89	Frank BryanBox 896
Plumbers, Apprentices Denver	<u>18</u>	Cyrus Lindwall1618 Gilpin St.
Steamfitters and HelpersDenver	30	Jake Jager4812 Bryant St.
Plumbers and SteamfittersGrand Junction	19	E. E. Breed748 Teller Ave.
Plumbers and SteamfittersPueblo	35	Frank M. HermondBox 602
Plumbers and SteamfittersTrinidad	10	Charles ThompsonBox 530
	1	
	262	
Pressmen and AssistantsColorado Springs	25	Karl Graissle418 E. Klowa
Pressmen, JobDenver	90	E. A. BraithwaiteCare Williamson & Haffner
Pressmen No. 40	20	E. J. Gardner1535 Colorado Blvd.
Pressmen, WebDenver	20	George Pepo4401 Alcott St.
Press AssistantsDenver	90	Thomas P. Rodgers4421 Stuart St.
Pressmen and AssistantsPueblo	25	W. H. Young408 Summit St.
	1	
	290	

Secretary Ernest Kemmler938 9th St.	Murry WolzStout St.	W. G. Snyder       Care Gazette         Thomas Auter       1125 W. Colfax Ave.         H. B. Altman       125 E. 8th St.	John Jack	D. G. Johnson
fembership 40	65 65	10 10	52 52 13	125 25 — 150
Name Soda Water Bottlers	Steamfitters, Railroad	Stereotypers, etc	Stone Cutters (Soft)	Street Railway Employes

1.00
Denver 35 Pueblo 50
-
120
.Colorado Springs 25
Creek 7
Denver 60
Pueblo 17
Leadville 12
121
lamosa 25
Denver 20
Denver 150
nnetion 18
verton 60
Principles (Principles)
273
Denver 15
1

# LOCAL UNIONS IN COLORADO--Concluded

Secretary	George F. HendricksBox 522	Ed. Harrington	A. W. HamiltonBox 103	Sol JacobsBox 15			gton	Frank Novotny520 22nd St.			J. H. FinnupBox 326	Elmer O. Anderson2549 Humboldt St.	B. C. Christian122 N. 5th St.	F. Wood705½ Main St.			Fanny Brandon3321 W. 38th Ave.			I. D. Billings	H. W. CarothersBox 425
Location Membership	10	11	72	40	1	136	25	क्ष	1	20	12	75	10	30	197	1	50	-	20	15	Φ
Name	Theatrical Stage EmployesColorado Springs	Theatrical Stage EmployesCripple Creek	Theatrical Stage Employes				Tile LayersDenver	Tile Layers' HelpersDenver			Tinners (Sheet Metal Workers)Colorado Springs	Tinners (Sheet Metal Workers)	Tinners (Sheet Metal Workers)Grand Junction	Tinners (Sheet Metal Workers)Pueblo			Tobacco StrippersDenver			Typographical, No. 708Boulder	TypographicalCanon City .

prings         S5         J. H. Ingledue.         Box 813           Creek         14         E. F. Ballard.         Box 681           Jenver         625         F. C. Birdsall         Box 681           James         7         W. A. Navinger         Box 651           Jollins         20         G. L. Stiffler         Box 652           Jordina         15         C. W. Culhane         S12 Colorado Ave           Adville         10         M. V. Devor         Box 82           Pueblo         55         Frank Tullis         S1 Ish Ave           Pueblo         55         Frank Tullis         S1 Ish Ave           Jenvel         25         Frank Tullis         S2 Ish St.           Jenvel         25         William Eggs.         S29 E. 7th Ave           George L. McCoy         Box 781         S2 Ish Ave           250         George L. McCoy         Box 781           250         George L. McCoy         Box 781		3,500		
55 J. H. Ingledue.  525 F. C. Birdsall.  7 W. A. Navinger.  20 G. L. Stiffler.  15 C. W. Culhane.  16 M. V. Devor.  55 Frank Tullis.  25 Frank Tullis.  25 William Eggs.  26 J. M. Osborn.  27 George L. McCoy.			3,500	•
55 J. H. Ingledue.  14 E. F. Ballard.  525 F. C. Birdsall.  20 G. L. Stiffler.  15 C. W. Culhane.  16 M. V. Devor.  55 Frank Tullis.  25 Ernest M. Stone  26 J. M. Osborn.  26 J. M. Osborn.  27 George L. McCoy.		290	1	
55 1. H. Ingledue 525 F. C. Birdsall 20 G. L. Stiffler 15 C. W. Culhane 16 M. V. Devor 55 Frank Tullis 25 William Eggs 25 J. M. Osborn	yy		1b 25	Cripple Creek
55  J. H. Ingledue  14  E. F. Ballard  7  W. A. Navinger  20  G. L. Stiffler  15  C. W. Culhane  16  M. V. Devor  55  Frank Tullis.  27  William Eggs.			250	
55  J. H. Ingledue.  14  E. F. Ballard.  7  W. A. Navinger  20  G. L. Stifflor.  15  C. W. Culhane.  16  M. V. Devor.  25  Frank Tullis.  27  Tynest M. Stone.  28  Tynest M. Stone.		52		
55  J. H. Ingledue.  14  E. F. Ballard.  7  W. A. Navinger  20  G. L. Stiffler.  15  C. W. Culhane.  16  M. V. Devor.  27  Erank Tullis.  28  Ernest M. Stone.		cs)	10	Denver
55  J. H. Ingledue  14  E. F. Ballard  7  W. A. Navinger  20  G. L. Stiffler  15  C. W. Culhane  16  M. V. Devor  25  Ernank Tullis  25  Ernest M. Stone			1	
55  J. H. Ingledue  E. F. Ballard  7  W. A. Navinger  20  G. L. Stiffler  15  C. W. Culhane  16  M. V. Devor  55  Frank Tullis			25	Trinidad.
55  J. H. Ingledue  14  E. F. Ballard  7  W. A. Navinger  20  G. L. Stiffler  15  C. W. Culhane  16  M. V. Devor			55	.Pueblo
55 J. H. Ingledue			10	Leadville
55 J. H. Ingledue			15	Greeley
55 J. H. Ingledue.  14 E. F. Ballard.  525 F. C. Birdsall.  7 W. A. Navinger.  20 G. L. Stiffler.			15	Grand Junction
55 J. H. Ingledue			50	Collins
<ul> <li>55</li> <li>J. H. Ingledue</li></ul>			[	.Durango
S5 J. H. Ingledue			525	Denver
S5 J. H. Ingledue			Ŧ	Cripple Creek
			S	Colorado Springs

# RAILROAD ORGANIZATIONS

# BROTHERHOOD OF LOCOMOTIVE ENGINEERS

		or hoosing at the programme
Location	Membership	Secretary Address
Basalt		A. M. DanielsonBox 16
Canon City	• • • • • • • • • • • • • • • • • • • •	Fred F. KearnsBox 198 B
Colorado City	66	F. J. Callahan210 S. 18th St.
Denver	315	P. J. McGill1470 Fillmore St.
Denver	75	F. Henchliff2247 W. 34th Av.
Denver		William Jenness1057 Kalamath St.
Grand Junction		E. B. Rogers
La Junta	80	C. D. Everhart402 Cimarron Av.
Pueblo	• • • • • • • • • • • • • • • • • • • •	E. J. Reilly
Salida		George E. BaldwinSalida
Sterling		E. E. Patton421 Pine St.
Trinidad	75	E. W. Cottrell352 W. Kansas Av.
Total membershi	p in the sta	te 920
Ladies' auxiliarie	es	800
		4.500
		1,720
BROTHERHO	OOD OF RAI	LROAD FIREMEN AND ENGINEMEN
Location	Membership	Secretary Address

Location	Membership	Secretary	Address
Basalt		S. H. Miller	Box 63
Canon City		G. E. Dickinson	Box 275
Cardiff		Leo Heller	Cardiff
Colorado City	75	L. L. Crawford9 S. 16th St., C	olorado Spgs.
Denver, No. 273		John Toole	W. 13th Av.
Denver, No. 540	• • • • • • • • • • • • • • • • • • • •	C. B. Bartholomew208 C	olorado Bldg.
Denver, No. 77		J. A. Rymer171	5 E. 35th Av.
Grand Junction, N	o. 475	A. L. Halligan31	0 Belford Av.
Grand Junction, N	o. 594	William A. Coughlin	.200 Rood Av.
La Junta	81	A. M. Erickson	Box 1035
Leadville	••••	W. V. Murdock	520 E. 9th St.
Minturn		J. N. Wilson	Box 30
Pueblo	121	William R. Carr	Box 335
Pueblo		J. T. DeJersey	Box 40
Rico		W. G. Laube	Box 442
Salida	160	W. H. Allen	.135 Park Av.
Sterling		J. S. Kennedy	426 Walnut
Trinidad		E. C. Jones82	4 Tillotson St.
Total members	hip		
Ladies' auxilia	ries		915

1,752

# BROTHERHOOD OF RAILROAD TRAINMEN

Location Membe	rship	Secretary	Address
Alamosa	127	W. F. Connelly	Box 444
Colorado City	110	F. E. Bartley22 N. Corona, Color	ado Spgs.
Denver, No. 30	287	W. L. Morrissey330 E	. 19th Av.
Denver, No. 446	175	C. S. McElharron2412 Lov	well Blvd.
Denver, No. 680 (Switch-		•	
men)	310	J. C. Gstettenbaur2129 V	V. 41st St.
Durango	125	C. E. Grenshaw83	37 3rd Av.
Grand Junction	190	J. L. Montague	Box 435
La Junta	140	H. C. Trent	Box 1005
Leadville (Switchmen)	40	W. E. Laughlin	Box 492
Pueblo, No. 32 (Switch-			
men)	296	R. P. Courts129 V	an Buren
Pueblo, No. 646	140	L. E. Timbers819 W	. 11th St.
Salida	277	T. T. Morris330 1	E. 5th St.
Sterling	106	C. W. Keating	Box 589
Trinidad	174	J. J. McCluskey313 E. To	opeka Av.
Total membership			2, 497
Ladies' auxiliaries			932
		·	
			3, 429

# ORDER OF RAILWAY CONDUCTORS

Location	Membership	Secretary	Address
Alamosa	45	E. M. Paulin	Box 404
Canon City	20	A. H. Smith115	Macon Av.
Colorado Springs		B. L. Beynon531 East	Platte Av.
Denver	397	F. D. Elliott422 Exch	ange Bldg.
Durango	20	B. Gogarty	1115 4th Av.
Grand Junction	65	A. F. McCabe403	Ouray Av.
Leadville	30	D. Daly120	E. 12th St.
Pueblo	170	B. F. Princes118	E. Evans
Salida	90	A. L. Paul	Salida
Sterling	• • • • • • • • • • • • • • • • • • • •	F. A. Ayres316	Poplar St.
Trinidad	85	W. J. Murray51	E. 1st St.
Total members	ship		1,032
Ladies' auxilia	ries		720

### GRDER OF RAILWAY TELEGRAPHERS

This order is organized by System Divisions, each division covering a railroad line, all members employed on the line belonging to that particular division.

Members in	
System Division Colorado	Secretary Address
A. T. & S. F 50	L. A. TanquaryPueblo
Burlington 43	
C. & S 70	C. L. Cheney935 17th St.
D. & R. G 275	A. E. RobertsStation A, Pueblo
Midland 40	
Rock Island	
Union Pacific 130	
All other roads 75	
Total 683	

### RECAPITULATION

	No.	Membership
Central labor councils	17	
Trades unions	282	20, 213
Railroad unions	62	6,772
Woman's auxiliaries		6,867
Total	361	33, 852

# Condition of Organized Workers, with Suggestions for Improvement

Schedules were sent out to the various labor unions, asking for reports upon the number of members unemployed during the quarters of the year; time; cause of strikes, if any, and number of members involved, together with time and amount of wages lost; the number of members incapacitated through accidents, and number killed while pursuing their vocation; also by what legislation conditions might be improved.

The answers to these queries are here appended:

### BAKERS

Had 16 per cent unemployed during the second quarter of the year, 14 the third, and 9 the fourth quarter, caused by the

# STATE LABOR ORGANIZATION REPORTS

AVERAGE TIME WORKED, HOURS OF LABOR, WAGES, CONDITIONS AND BENEFITS IN 1911

	AVERAG		E WORKED, HO RAOE TIME WO		LABOR, WAG	ES, CONDITIO	NS AND BE	NEFITS IN 1911		\$1 \$1 \$1 \$1 \$1	FITS PAID	
Organization	Location	Month	Days In Week	Hours Per Day	Per Hour	WAGES PAID Per V	Vask		Opportunity			Members
					101 11041	Mate	Female	Iнсгеазо	Employment Over 1909	on Stekness Weekly	on Death (Dollars)	Insured (Per Cent)
Bakers	Denver .Colorado Springs	12 12	ថ	10 10		\$17.00		****	Dec. *	\$7.00	75-350	80
Barbers	Denver	12	6	10		70.00 16.00		\$1 00 Week	Dec. Dec.	 6.00	60-500	
Barbers	Florence	12	Ğ	10		16.50		****	Dac.	6.00	75-500 100-300	50 85
Barbers		13 13	G G	10 10		15.00 17.50		••••	Dae,	5.00	75-500	85
Barbers	Puehlo	13	6	10		18.00			Inc.	5.00 10.00	75-500 75-500	87.6
Hlacksmiths		12	5	8	\$0.41			.01 Hour	Inc.	****	*****	60
		11 12	G G	<b>8</b>		22.00 22.00		• • • • • • • • • • • • • • • • • • • •	Dec.		100	27
Bookbinders		11	G	7		23.00		3 00 Week	Dec.	****	100 75	3 75
Bricktayers		3	61/2	8		26.10			Nec.		100-300	30
Bricklayers		13	614 614	8 2	.76	33,00	***	••••	****	••••	100-360	**
Bricklayers		8	6 1/2	7-8		33,00	***	****			250-350 150-350	9
Broommakers		9 13	6	9	.30	****	••••	.00 Hour	- * *		*****	100
Carmen, Raltway		12	6	9	. 20%		****	.02 Hour	Dec. Dec.			50
Carmen, Pueblo		12	G	9	. 23	****		.01 Hour	Dec.	***	*****	100 90
Carpenters		10	5½ 5¼	8 7. 10	.63%	10.25	••••		Dec.		200	30
Carpenters		9	5 ½	8	.0094	22,00		****	Dec.	4.00	50-000 50-000	80 15
Carpenters					.00	****		****		å.00	260	10
Carpenters		7	5½ 5½	8	.60			** *	Dec.		200	80
Carpenters		S	5% 5%	S	.60			** *	Dec. Dec.		60-400 250	25 50
Carpenters		10	5 %.	S	.55				Dre.		200	95
Carpenters		9 6	** 516	8	,55			****	Dec.	7.00	250	
Clgarmakers	* 10 m - 10 u	10%	5½ 5½	8	.68 2-3				Dec.		100 50-550	60
Clgarmakers	Pueblo	13		8		16.00			1111	5.00	50-550	100
Conductors, Railroad	Colorado Springs	12		By trip		By mile		10 P. C.	Dec.		1,000-3,000	100
Conductors, Railroad	Denver	13 13		By trip		By mile By mile		10 P. C. 10 P. C.	Dec. Dec.		1, 000-3, 000	100
Conductors, Raitroad		12		By trip		By mile		1.00 Week			1,000-3,000	100
	Alamosa	12	6	10		to Wage Scale			lne.			33
Cooks		10	6 7	11 12	.40	*20.00 *27.00	*12.00		Dec. Dec.	5,00 8,00	60	วร
Electrical Workers		8	51/€	8	.60	22.50			Dec.	0.1/1	90 100-300	8 75
Elevator Constructors		9	51/4	8	.66%	****			Dec.			
Engineers, Locomotive		10	By trip By trip	14	.6154	30.00		9 50 Minote	Dec.	6.00	*****	95
Engineers, Locomotive		12	By trip		5.00 per 10			3.50 Week	Dec. Inc.	20.00	By Premium	90 100
Engineers, Locomotive		12	By trip	10		15.00		,05 P. C.			1,500-4,500	100
Engineers, Locomotive		10	By trip By trip	12	1 50 per 10	0 mHes 20.00			Dee.			100
Firemen and Enginemen			By trip			20.00		3.33 Week	Dec.		500-3,000	99 96
Engineers, Stationary			7	10	30	21.00			Inc.		*****	
Garment Workers		11	514	8	691	18.00	10.00		Dec.	-11		
Granite Cutters		9	51½ 6½	8	,621/2 .57	27.50 25.00			lne.		100 50-200	75 60
Hod Carriers		10	41/2	8	. 4434	****			Dec.		50-100	75
Leather Works and Horse Goods		11	6	9	.35	21.00			Dec.	5.00	40-100	100
Lithographers, etc		12 12	6	8	.51 .40	26.00		****		• • • •	500 E0 100	100
Macirinists		8	6	9	.39			.02% Hour		4.00	50~100 50~200	400 75
Machinists	Pueblo	10	б	9	. 42			031/4 Hour		6.00	50-100	50
Mallers, Newspaper	Denver	1?	7 5½	1.2 8	.37	16.50 27.50					70-200	50
Marble Cutters and Seiters  Marble Helpers	Denver	9	614	8		17.50					*****	50 50
Miners, Coal		4	6	S	By ton	25.00		On Strike			160	2
Miners, Coal		4	6	8	By ton , 291/4	25.00		On Strike				ht on
Miners, Coal		4	6	9	By ton			On Strike			*****	None
Miners, Metal		10	7	8	****	21,00		****	Dee.	7.00	80	30
Miners, Metal		10	7 5½	8		21,00		****	Dee.	8.00	90	δ
Musicians		ų.	By engagement	-	1.00	****				5.40 5.00	*****	66
Musicians	Fort Morgan		By engagement		1.00							00
Musicians		12	By engagement	8	1.00	20.00		** 6 *			* * * * *	95
Moving Picture Operators		6	64 <u>4</u>	S	.60	22.00		****	Dec.	5.00	100-300	50
Painters		9	6	8	.50	21.00			Dec.	5.00	100-300	
Painters		9	6	8	.40	19.20			Dec.	6.00	100-300	16
Photo Engravers Plasterers		12	6 51 <u>%</u>	8	****	25.00 30.25			Dec.	6.00	100 300	50 60
Plumbers	neomalA	12	6	8	.62½	30.00		6.00 Week		5.00	100	75
Plumbers and Gashtters  Plumbers and Steamlitters		9	51/4	8	. 621/4	27.50		****	Inc.	5.00	100	E0 33
Pressmen		9	6	8	.621/4	30.00 25.00		2.00 Week	Dec.	6.00	100	75
Pressmen, Job	Denver	12	6	8		21.50			Dec.	• • • •	100	
Press Assistants Sheet Metal Workers		9	ø	8	****	16.00	• • • •	****	Dec.	6.00	100	20 30
Sheet Melal Workers		8	6 5¼	8	.561/4	27.00		1 * + + +	Dec. Dec.	6.00	100	80
Stage Employes, Theairical	Pueblo	9	7		.60	22, 50	****	****	Dec.		*****	••
Steamfitters		7	δ⅓,	8	.02⅓	27.60	***	****	Dec.	6,00	100 100	50 25
Steamfitters, Helpers		7	61/4 G	8	.40	19.50 21.00	****	****	Dec. Dec.	5.00	50-100	60
Stereotypers and Electrotypers		12	6	8	***	25.50		****	ine.	****	100	90
Street Railway Employes		12	7	10	.271/4	19.00	****	****	inc.	5.00	100-S00 25-100	20
Teamsters and Shovelers		10 12	G G	10 8	.30	18.00 18.00		****	inc.	0.00	300-1,000	100
Telegraphers, Rallroad	Denvor, and state	12	7	8-13	****	17,50	****		****		*****	
Trainmen, Railroad		12	* *	8-16	40	30,00		***	Dec.	****	5-1,500 5-1,500	100
Typographical		1? 12	6	10 8	.42	25.50	Same	* * * *	***	****	75~400	50
Typographical	Cripple Creek	13	E	8		24.00	Same	****	****		75-400	90
Typographical		12	δ	8	••••	25.00	Same	.60 Week	Inc.	δ.00	75-400 75-400	50 25
Typographical		12 11	G 6	8	••••	21,00	Sams	***	Inc.		75-400	100
Typographical	Grand Junction	12	6	8	****	23.00 Day	Same	***	••••	****	75-400	90
Туродтарысы		12				26,00 Night 16,00	Same	.20 Day	****		75-100	80
Typographleal		12	Ç	8	.33	24.00	Same		Dec.	***	75-400	75
Typographical		12	6	8	****	23.00	Sams	or their	Inc.	••••	75-400	80
Upholsterers		10	6	8 11	.25	19.50 *12.00		.25 Day	Dee.	5.00	50	100
Walters	Silverton	8	7	13	.30	*21.00	10.00		Dao.	8.00	00	100
Waltresses	Denver	7	7	8	****	••••	*8.50	***	Inc.	5.00	60	100

<sup>\*</sup> With board.

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mo-base rame
                                                     THE LAST.
 100 M (CO ) 120 T
                                             EUTOPO-SADI
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                                               Lesonomiski (c
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                                            oldina. 0 many
                                                 somionight.
0.45 min 0.01
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fact that the non-union shops worked longer hours for the same pay. One strike occurred, which was unsatisfactorily settled by compromise. No members injured or killed.

### BARBERS

Report dull business because of safety razors and general business depression, which has caused a loss of membership. About 2 per cent out of work during the year.

### BLACKSMITHS

Seven members of the Denver union on strike by reason of the Union Pacific shopmen's strike. Benefits paid to them, \$252; wages lost, \$1,674. Strike still on. No other members out of employment, and business increased through increased railroad transportation. No members injured or killed.

### BOOKBINDERS

Denver union reports 95 per cent of members unemployed during the year, caused by work being done out of the city and the lack of people to demand home products. Demands were made upon employers for increase of wages, with following result: September 1, 1910, raise from \$20 to \$22 per week; September 1, 1911, \$23 per week; September 1, 1912, \$24 per week. Contract made to run till September 1, 1914. Suggested legislation: A law to require all schoolbooks for the state, counties, and cities to be printed and bound in the state, for the protection of the people who spend their money in this state.

### BROOMMAKERS

Report diminished business because of the large amount of convict-made brooms being shipped in from other states. Want an amendment to the convict-labor statute making the same effective in goods shipped in from other states.

### BRICKLAYERS AND MASONS

Chances of getting employment poor, through dull times, lack of material, and bad weather. About 50 per cent out of employment during the year. Occupation not extra hazardous except on high buildings. Six members injured. Legislation suggested compelling fireproof or near fireproof buildings in certain districts. Building inspectors in towns as well as cities compelling better scaffolding and more substantial placing of carpenter work.

## CARMEN—RAILWAY

Ten per cent out of work during the year. Five members injured by accident. Occupation not extra hazardous. Strike

ordered by refusal of Union Pacific, Harriman lines, Illinois Central, and M. K. & T. railroads to give contract with men. Ninety days' work lost by Leadville union because of this. Suggested legislation:

- 1. To have railroad companies furnish car shops, where repair work can be done in stormy weather.
- 2. To have the switches leading to repair tracks locked with other than switch locks, the key to be in the hands of foreman having charge of the work; to exclude switch engines from repair tracks while men are working under cars.
- 3. To have all car inspectors employed show at least two years' experience on car work, and pass an examination as to their knowledge of air brakes, hand brakes, and general condition of cars.

### CARPENTERS

Fatal accidents, one; accidents, fifty-three. General depression in this line of work reported from all over the state. Members out of employment range from 10 to 50 per cent according to locality. Denver business very bad through slump in building, and unfavorable weather. Legislation suggested: More stringent employer's liability law. By making employers personally liable, they would give more supervision to scaffolding, hoisting appliance, more safety guards around machinery in planing-mills, reduction works, etc., and about all the arrangements of machines, floor space between, etc.

### CEMENT WORKERS

Report number of members out of work, 90, 90, 75, and 50 per cent for the quarters in 1911, caused by bad weather and no business. Recommend laws for the protection of men working on buildings, and strict enforcement of the same.

### CIGARMAKERS

Work on the piece scale—a certain amount for 100 or 1,000 cigars manufactured. They report no increase in wages or conditions, and that manufacturers exact more from workmen now than formerly. In consequence the men are not making so much. Members unemployed during the quarters, 8, 10, 5, and 10 per cent, caused by people patronizing trust stores, and by the greater use of pipes and cigarettes. Opportunity for employment decreased because of the concentration of wealth in the hands of a few. Non-employment in other lines of industry affects all lines also. Denver union reports a strike in the Cuban Cigar Factory, caused by the demand of the union for the reinstatement of three workers. Fifty-three members involved and strike lasted twelve days. Wages lost, \$1,908; strike benefits paid, \$600. Strike was successful.

### COOKS-PROFESSIONAL

Condition of employment affected by similar conditions in other lines. Very dull during 1911. Percentage out of employment during quarters, 15, 10, 10, 15; an unusually large percentage for the second and third quarters. Legislation suggested: Eight-hour day. Claim is made that their occupation is just as injurious to health as are mining and other avocations so declared by law. Also, an extension of the factory inspection act, compelling the proper ventilation of kitchens and inspection thereof. Number of accidents caused by use of defective utensils, 10. Also a law is recommended to abolish private employment offices, which are a constant menace to the steady employment of members, and a graft upon hotel and restaurant help in general.

### CONDUCTORS—RAILWAY

Occupation extra hazardous. Number killed, three; injured, six. About 10 per cent of members out of employment during the year, through dull business and consolidation of train tonnage caused by use of larger locomotives. Wages increased about 10 per cent by arbitration. Legislation necessary: Laws compelling more strict application of safety appliances.

### ELECTRICAL WORKERS

Classed as extra hazardous occupation. Twelve members injured, none fatally, during 1911. Chances of employment diminished because of open-shop competition. Members out of employment, 15 per cent in summer and 30 per cent in winter. Workman's compensation law demanded.

# ENGINEERS AND FIREMEN—LOCOMOTIVE

Extra hazardous occupation. Fifty-three injured and four killed during the year. Business dull in 1911, caused by general depression; increased in 1912 by reason of moving heavy crops. Increase in salary received through successful negotiation with employers, showing the increased cost of living. Legislation wanted: Law to compel railroad companies to install positive block signals, and equip all locomotives with electric or high-power head lamps; prevention of steam leaks on engines; limiting length of freight trains to where hand and lamp signals can be readily interpreted from either end of train. No freight train should be allowed to run which cannot get in on any auxiliary track provided for passing purposes, and have at least three car lengths of unoccupied passing track at either end for variation in stops.

Present United States mail cranes are very unsafe. Law should compel them to be set back far enough so that an engineer would be in no danger of being hit by them.

Law prohibiting an engineer from remaining on an engine

ever ten continuous hours.

State law compelling railroads to have night track-walkers, and switch lights on all switches.

Inspection by state of all tunnels; concrete and iron bridges, properly graded, to be used exclusively; fences kept in condition to keep live stock off the track; and gates on all public crossings.

# ENGINEERS-STATIONARY

Business increased because of the installation of more plants. Three injured, none fatally. Occupation not extra hazardous. Recommendation for universal eight-hour day.

### GARMENT WORKERS

Worked only five days a week during 1911, because of dull business.

### GRANITE CUTTERS

Increased business by Salida union because of demand for Salida finished granite. Other sections of state report diminished business through lack of building. Recommend law compelling the installing of suction fans in working sheds, to stay the ravages of their worst enemy—"granite-cutters' consumption;" enactment of a workman's compensation law.

## MACHINISTS

Report twenty-five accidents, one fatal. Denver union reports an average of 30 per cent out of work during the year. This union had a strike at the Rock Drill and Machine Company, and of those members working for the Union Pacific Railroad, on account of the shopmen's strike. They had fifty-six members out for twenty-four months, with loss of wages of \$75,515; strike benefits paid, \$6,232. Rock Drill strike was compromised; Union Pacific strike still in progress. An eight-hour day was gained on the Denver & Rio Grande Railroad system, without strike.

### MOLDERS

Report a few members burned. Occupation not extra hazardous when shops are properly equipped. Desire a law compelling the installation of suction fans to remove smoke and dust from shops in cold and damp weather, the better heating of shops in winter, and the installing of bath- and dressing-rooms. Business dull.

### MUSICIANS

Work by the engagement, or \$1 an hour. Work slack in 1911 because of business depression. Desire a more even distribution

of the wealth of the country, which, they believe, could be brought about by dissolving trusts and monopolies, government control of public corporations, and a fair revision of the tariff.

### MINERS-COAL

Report only four men injured and none fatally, because of the fact that the miners in the northern fields were not working, being on strike. (Strike situation covered in other pages of this book.) Miners to the number of 125 involved in strike from April 1, and still on; 39,125 days' work lost; \$48,906.25 wages lost, and \$46,000 paid in strike benefits. Legislation wanted: Eight-hour workday; strict enforcement of mining laws; safety law with following provisions: proper ventilation, sprinkling roads, check weighman on tipple, escape shaft far enough away from main shaft to enable men to get away in case of explosion, etc.; also ladder and cage to hoist men with; watchman placed along hauling-way when men are coming from work, to safeguard them from being hit by cars, etc.; mines properly drained; good and sufficient ladders in shafts, with platform every fourteen feet; shafts kept in good order, and free from ice and loose strata; state mine inspectors to be elected by the people; bi-monthly payday; workman's compensation act.

### MINERS-METAL

Occupation extra hazardous; about 102 injured and twenty-five killed in 1911. Has been no increase in wages. Business dull because of contracts expiring with smelters, no mining, and smelter charges too high; 55 per cent of miners out of work. Legislation desired: Workman's compensation act; mining laws amended to the effect that upon complaint of at least two reliable and practical miners (whose names shall be kept inviolate), in any mine employing five or more men, the inspector shall be required to investigate the condition of such mine, and report his findings to proper officer, and if found in a dangerous condition, or operating in violation of law, such operator or owner shall be fined in such sum as the courts may deem proper.

### PLASTERERS

Had four members injured during the year. Suggest a building inspectors' law, who shall see that work is properly done according to architect's specifications, and that all scaffolding is properly erected. Business bad because of general depression in building industry. Percentage of members out of work by quarters: 20, 35, 45, 75.

### PHOTO-ENGRAVERS

Denver union reports increase of work because of opening of another shop. No increase in wages except by individuals through

superior workmanship. Desire a strict enforcement of sanitary regulations now in force.

### PAINTERS-HOUSE

Report working only half time during 1911, through dull business.

# PLUMBERS, GASFITTERS, AND STEAMFITTERS

Twenty-three members injured during 1911; none fatally. Average 33 per cent of members out of work through dull business and continuance of building trades strike in Denver; 5,000 days' work lost through this strike, with loss to men of \$20,000 in wages; \$12,000 paid in strike benefits. The strike or lockout was caused by reason of the master-builders refusing to recognize the card of the Building Trades Council of Denver; still on, though modified by the council giving affiliated unions the right to make separate contracts with employers. Plumbers desire a state plumbing inspection law, and better enforcement of the city ordinances requiring the inspection of plumbing; also state law requiring the examination and licensing of all plumbers, and state inspection of all work. Sewer gas causes more fever than any other one cause in Colorado. Steamfitters desire a law compelling proper inspection of all steam pipes, in power plants especially, which will raise the standard of mechanics and decrease the number of fatalities.

### PRESSMEN AND ASSISTANTS

Two to 4 per cent out of employment during year through business stagnation and work being sent to other cities to be done. Assistants won a strike of one day only, and gained an increase in wages of 50 cents per week. Desire strict enforcement of sanitary regulations in the shops.

# SHEET METAL WORKERS, TINNERS, ETC.

Business very dull in Colorado Springs. Report 30, 90, 100, and 70 per cent out of employment in the four quarters of the year. Denver reports 15, 15, 10, and 15 per cent in the same quarters. The building trades strike affects this union, but satisfactory agreements have been reached with most of the employers. Desire a law for proper protection of mechanics while working on buildings, and workman's compensation act.

### STEREOTYPERS AND ELECTROTYPERS

Business increased by establishment of more newspapers. Gained an increase of wages by conciliatory negotiation. Desire rigid enforcement of sanitary regulations.

# STREET RAILWAY EMPLOYES

Colorado Springs had five members injured; none fatally. Desire a law doing away with running boards, and compelling all

cars to have center aisles; also to compel the heating of vestibules when necessary.

# TELEGRAPHERS-RAILROAD

Chances of employment diminished slightly. Have had no strikes, but gained a slight increase in pay through negotiation. Eight-hour workday desired. At stations where but one man is employed he is required to work twelve hours per day, which is excessive where train orders are handled. No telegrapher concerned in the movement of trains should work to exceed eight hours per day. Public safety demands this, and sixteen hours should elapse before he is again required to work.

# TRAINMEN, RAILROAD BRAKEMEN, AND FREIGHT CREWS

One lodge reports fifteen injured; none fatally. Have gained an average increase in wages of from \$98.39 to \$165 per man, through negotiations and high cost of living. Business diminished in 1911 through general depression. Men work from four to sixteen hours per day, according to trip. Switchmen report decreased work through the use of larger cars and locomotives. Three members injured; none fatally. Desire laws compelling railroads to employ full train crews, workman's compensation act, blocking frogs and switches, and keeping track clear of obstructions, such as coal, coke, ore, and broken parts of cars; and an eight-hour day.

### TYPOGRAPHICAL UNIONS

Eight unions returned reports, which is the largest number received from any one craft. Report one member injured in line of duty during 1911. Fort Collins reports an increase of \$7 per week per member since the organization of the union in 1905. Denver and Pueblo also report increase in wages through the increased cost of living, without strike and through negotiation with employers. Demand a strict enforcement of the factory inspection act. Printing-offices are declared to be very unsanitary and breeders of consumption. Better ventilation and light required.

### WAITRESSES

Upon failure of the last legislature to enact an eight-hour law for women workers, the Denver union made demand upon proprietors of restaurants for it, and gained it in all union restaurants.

# INDIVIDUAL WAGE-EARNERS' REPORTS

Personal information from wage-earners is of greater value than estimates based on general reports, for the purpose of showing the conditions under which they labor, the amount they earn and the manner in which they live, their social relations, and the laws required to better their conditions. With the view of obtaining first-hand information upon these subjects, schedules for individual wage-earners were prepared and sent out to 100 people following different occupations, asking these questions and leaving a large margin of space for invited comment. Replies were received from only twenty-nine people, which is much less than was anticipated, but, for the information of the public, a synopsis of these replies is appended:

No. 1—Machinist. Married. Has six persons depending upon him for support. Has worked steadily during year, and earned \$1,456. Has spent: for food, \$500; fuel, \$40; clothing, \$60; sickness, \$20; rent, \$192; sundry expenses, \$500; total, \$1,312. Carries old-line life insurance of \$2,000, at an annual cost of \$60. Desires a universal eight-hour-per-day work law, rigid enforcement of the factory inspection law, and a workman's compensation law, as he is engaged around dangerous machinery.

No. 2—Newspaper mailer. Earns about \$1,200 a year. Has three depending upon him for support, and is insured in old-line life for \$1,000, at annual cost of \$27.07. Does not own a home, and has saved or invested about \$200 in the last two years. Works under unsanitary conditions, and suggests that workshops should have sanitary drinking founts in them. Desires sanitary conditions in printing-offices, the organization of all unskilled workers, and the establishment of universal eighthour workday. The Bureau of Statistics can best help the wage-earners of this state by preventing newspapers from printing untrue reports of the condition of the state that bring thousands of workers here, when there are thousands out of work now.

No. 3—Printer. Belongs to Typographical Union. Age, fifty-four, and married. Has one depending upon him for support. Works eight hours a day, and has lost an average of twenty days a year through holidays and slack business. Earned \$1,240 in 1911. Spent: \$350 for food; clothing, \$150; sickness, \$25; rent, \$240; incidental expenses, car fares, etc., \$125; total, \$976. Carries fraternal life insurance, \$2,000, at a cost of \$36 per annum. Does not own home. Has invested in two years \$300 in school bonds. Advocates a shorter workday in the way of legislation to benefit the workers, and that a strict enforcement of labor laws is the best work that can be done by the Bureau of Statistics to assist the wage-earners of the state.

No. 4—Baker, Pueblo. Age, twenty-five, and married. Has two depending upon him for support. Works ten hours per day, and lost three weeks' work in the year. Earned \$1,050 in the year. Belongs to union, and it has increased the wages of its members \$1 per week. Sanitary conditions are fair where he is employed, but lack of sunlight leads to consumption among bakery workers. Spent \$300 more than he earned in the year,

through sickness in his family. Carries accident policy of \$50 per month, at cost of \$18 a year; also life policy, \$200, at cost of \$28.80. Wants a law doing away with night work in bakeshops, eight-hour workday, and better sanitary regulations. Under Remarks he says: "In the State of Illinois there are laws that regulate bakeshop conditions, and if we could have similar laws enacted, it would be of great benefit to the bakery workers. Night work is an ancient rule in our craft and is unnecessary. There is a national law in Italy and other nations against it. The bakery workers are subject to throat and lung trouble, caused by inhaling flour dust; also, there are few bakers that are not troubled with broken blood vessels in their limbs, and rupture, caused from standing long hours in hot bakeshops on cement and wood floors. An eight-hour workday would do away with this. We are fighting for this, and hope eventually to win."

No. 5—Blacksmith's helper. Lost ten days' work in the year through sickness. Earned \$744. Is married, and has three depending upon him. Works around dangerous machinery, which is well guarded, and sanitary conditions are good. \$300 for food, \$37.50 for fuel, \$72.75 for clothing, \$173 for rent, and lost \$18 through sickness. Carries no insurance and does not own his home, but invested \$400 in furniture, which he in part still owes for. Thinks that the best legislation to help the workers would be the state ownership of coal mines, and railroad reduction in freight rates on raw materials to equal the rate of the finished product. He remarks that "under the present system there seems to be but little help for working-men. Now, to me, a railroad man, a reduction in freight rates would help a great deal, but if that occurs we can get no raise in pay, but rather a reduction, as dividends must be paid on overcapitalized stock."

No. 6—Railroad clerk. Does not belong to a union. Earns \$75 per month. The average wages is \$60. Earned \$400 in the year, as he was unemployed most of the time. Wages in his line have not increased because "the railroads only increase the wages of the unorganized about once in every 100 years, and he is not that old. Has lost many positions trying to organize the railway clerks, but they seem hopeless." He is one of three boys who collectively support their parents. All his money was given his mother, who has put what she could into a home for the family. Carries fraternal life insurance of \$700, at a cost of \$7 per annum. Believes in government ownership of railways, and that the bureau can best serve the workers by educating them to vote the Socialist ticket, to which he adds: "I know you won't do that, but that's my answer just the same."

No: 7—Cook, professional. Age, thirty-six. Works eleven hours per day and, being a union man, six days per week. Earns \$3.50 a day and board when working. Complains of insufficient ventilation in the average kitchen, and that "architects have

about as much conception of the ventilation of a kitchen as a cook has of theosophy." Single man, and pays \$15 per month for room. Is member of fraternal lodge, which pays \$10 per week for sick benefit, and \$100 on death. In addition to this, the union pays \$5 per week, and \$50 at death. Has saved about \$100 cash during the year. Wants an eight-hour workday in the way of legislation, and adds: "The work in heated, illy ventilated kitchens is just as injurious to health as is work in mines or smelters." The Bureau of Labor can best serve the workers by having the power to bring suits against violators of labor laws, without having to wait upon the pleasure of district attorneys, who are often corporation tools. Remarks that "laws should be passed and enforced to curb the rapacity of the trusts, which should be prosecuted for usury the same as are moneylenders when they extort extortionate dividends on capital invested, or water. There is no reason for sugar being sold for 8 or 10 cents per pound in this state, when C. S. Morey testified before the United States government Sugar Trust probe that the average cost of production was but 2½ cents in Colorado. The same applies to nearly all necessities of the people, and is the direct reason, with dividends paid on watered stock, why the poor are getting poorer and the rich richer all over the world. A readjustment of the profits of industry is demanded, and if it is not soon forthcoming, the common people will take it —by force if no other way is left to them." Averages nine months' work in the year, "which is three months more than he wants to at that kind of work." Advocates enactment of a law abolishing private employment offices, "which are in the loan-shark class," and are doing more to make tramps than any other one

No. 8—Laundry worker, female, Pueblo. Age, twenty-three. Works nine hours a day. Lost two days in the year from sickness. Gets top wages as skilled employe—\$10 per week. Has received a raise of 50 cents per day "by faithful service." Belongs to union. Works around dangerous machinery, which is properly guarded. No accidents in that plant. Fire-escapes; sanitary conditions good; separate toilets for each sex provided. Supports herself only. Paid out for clothing, \$150; sickness, \$20; rent, \$80; sundry expenses, \$40. Carries no insurance and wants the eight-hour law for women (since adopted).

No. 9—Carpenter. Age, forty-eight; married. Has a family of eight depending upon him for support. Works eight hours per day, at a wage of 45 cents per hour. Has been unable to work six months in the year, from sickness and through cold weather and dull times. Spent \$500 for food; fuel, \$50; sickness, \$100; sundry expenses, \$145. Pays fire insurance of \$25 a year for \$6,000 policy on property worth \$12,000, of which he has an equity of \$8,000, as rental on this property of \$800 per year. Desires universal eight-hour workday of five days a week.

cheaper money, taxation of equity in home or property only. The Labor Bureau can best assist the workers by pointing out unjust and unfavorable conditions to legislative bodies, and insisting on the removal thereof. Remarks: "The thing that causes the most worry, the most hardship, and is the chief cause of poverty and crime, is enforced or involuntary idleness. The state should provide work for all who want work. A great help to the working class would be money at a lower rate of interest. Building and general improvements would then be carried on on a larger scale. The farmers would have better homes, extend their improvements, and so provide more and better-paid labor. I think the government should issue original bills to at least half the value on farms and all other property insured valuable considerations, just the same as it does on gold. There is no reason why a farm or insured house is not as good security as a piece of metal that is yellow. This money could be loaned at cost, and would harm nobody but the loaning fraternity, and since they neither produce nor handle any of the necessities of life, the community and state would lose nothing by their demise. A postal bank of issue is of far greater need than the postal savings bank, because when a man has savings he is not in any danger, but when he is jobless, or paying from 10 to 20 per cent interest to carry him through a spell of sickness, that is what makes calamity. Money at cost and never-failing employment will comfort us in mind and body."

No. 10-Upholsterer. Married; age, forty-five. Family of two. Earns \$21 a week, full time. Very dull business and loss of employment for three months. Wages increased 25 cents per day, through organization and increase in price of necessities. Sanitary conditions in workshop good. Pays \$18 a month rent. Has had much sickness. Has "been lucky to buy any clothing." Insured in fraternal life for \$1,000, at cost of \$15 a year. Furniture insured for \$500, at cost of \$1.50. The way to improve conditions in his line is for the people to buy home-made goods and keep mechanics employed that are here. He says: "For several years I have kept track of the goods shipped into Denver from furniture firms in the East, good and bad stuff, and it amounted to \$175,000. Most of it comes from Chicago and Grand Rapids. If there was more of it made here, we would have more houses and families in good old Denver. Most of the merchants are advocating home industries and buying eastern-made goods by the carloads. Fifteen years ago there were sixty-five members in the union; now there are only twenty-five; which does not look good. We know the cause, and so do you."

No. 11—Carpenter. Age, fifty; married. Has four depending upon him for support. Earned \$1,023.60, and spent for living expenses \$1,086, showing that he went behind during the year, caused by no work part of the time. Building industry slack, and a large number of carpenters out of employment. Says that about

3 per cent of carpenters are injured during a given year. Desires the enactment of a workman's compensation act.

No. 12—Machinist. Age, thirty-four; married. Three depending upon him. Works eight hours a day. Was idle twenty-five days, and earned \$940. Works around dangerous machinery, that is fairly well guarded, and sanitary conditions are fairly good. Works in railway repair shop, and in winter-time, when doors are closed, the smoke from locomotives is very bad. Carries old-line life insurance for \$1,000, at annual cost of \$49.30; weekly accident policy of \$18 if injured, at cost of \$30 per annum. Owns a home worth \$2,200, which is clear. Has not saved anything the last two years. "Could not purchase a respectable living for my family on my earnings." He wants "legislation that would give me all my labor produces and stop the capitalists from robbing me of four-fifths of what I produce. I do not know the powers of your department, but use whatever power you have, in whatever way you can, in the interest of the working class. I am filling out the above blank off-hand, as best I can. I realize that such statistics are valuable, but I do not expect any relief under the present form of society; not until the working class, through their own political party, take possession of the powers of government."

No. 13—Carpenter, Leadville. Age, sixty-two; single. Works eight hours a day, and gets 50 cents per hour. Out of employment six or seven months in the year, because of the smelter trust being too exacting on mining industry, causing loss of mining. Earned \$500 in year, and spent \$450 for living. Owns no home. Suggests, in way of legislation to help the workers, a "labor lien law, with penalty of imprisonment for non-payment of wages except in cases of failure or bankruptcy—prima facie robbery." The bureau can best assist the wage-earners by "showing the approximate number of wage-earners robbed annually of wages."

No. 14—Barber. Age, fifty-eight; married. Has five depending upon him for support. Works ten hours a day for \$15 a week. Lost three days' work in the year. Carries accident policy of \$50 per month, at cost of \$1.25 per month; fraternal life, \$1,000, and fire insurance, \$700. Has made no savings during year. Wants the barber law strengthened in state and nation. Labor Bureau can best assist the workers by enforcing the state laws and letting no one escape because he has a pull or money. "Show no favorites. Our state laws are not enforced except against the poor workingman. The wealth is not compelled to abide by the laws of the state. Corporation coal companies, etc., violate all laws on the statute-book."

No. 15—Musician. Age, thirty-nine; married. Five depending upon him. Gets \$1 an hour when he works. Spent in year: fuel, \$35; clothing, \$100; sickness, \$10; rent, \$150; sundry expenses, \$75; total, \$630. Carries fraternal life insurance, \$3.000, at cost of \$36.60 a year. Owns a home valued at \$1,700, and carries fire insurance on it of \$700. Has made no savings during

year. Suggests in way of legislation: reduction of tariff, regulation of freight rates, and general measures to let the people rule. Believes the Labor Bureau can best help the workers "by working along the lines now mapped out by the bureau. Believe you are now doing your duty."

No. 16-Locomotive engineer, Trinidad. Age, thirty-one; married. Four depending upon him for support. Works from ten to sixteen hours per day. Was off about sixty-five days of his own accord. Gets \$5.55 for run of 100 miles, which averages a day's work. Earned about \$1,200 during the year. Spent: \$375 for food, \$48 for fuel, \$225 for clothing, \$65 for sickness. \$65 for sundry expenses. Owns his home, worth \$1.500. Carries fraternal life insurance of \$3,000, at a cost of \$48 per annum; accident insurance of \$20 a week, which costs \$28.20 per annum; fire insurance, \$1,000, at cost of \$6 per annum. Has saved or invested in the last two years about \$680. In way of legislation he suggests locomotive headlight law, such as is in force in the States of Texas, Arkansas, and Mississippi. "The employes in the engine service and train service, as well as the public, should be protected with electric headlights on locomotives. It is true that the companies have placed electric headlights on most of the passenger engines, but our freight engines still have the old oil headlights, which will not, when at their best, throw a light over 100 feet, which gives the engineer no chance to see bridges out, or bad track, or stock on track, at night, in time to stop train when running at high speed."

No. 17—Printing pressman, Denver. Age, thirty-six; married. Five depending upon him for support. Works eight hours a day. Earned about \$1,208 in year. Union man. Gained increase in wage of \$1 a week. Proper means of egress are provided where he works, and sanitary conditions are fair, but the air of a large pressroom is very conducive to tuberculosis. Works steadily, and generally saves \$10 a month. Spends for light and fuel about \$60; clothing, \$150; hospital, sickness, and operations, \$143; rent, \$370. Carries old-line life insurance, \$1,500, at cost of \$27.90 per annum; fire insurance, \$500, at \$1.50 per annum. Spends the balance of his wages for food and sundry expenses. Wants the employing printers to provide better ventilation, as during cool weather nearly all pressrooms are closed up tight, so as to facilitate keeping the temperature warm. Thus the employer saves on the cost of fuel and heat, but the workmen suffer for lack of pure, fresh air. The process of printer's ink drying on the newly printed paper takes up nearly all the oxygen that is in the air, which at times causes a "dopy" feeling, which leaves a person as soon as he obtains fresh air. "Statistics will show that my occupation ranks near the top of the list of those having a heavy death-rate from tuberculosis, which is caused principally from the stated cause."

No. 18-Metalliferous miner. Age, forty-one. Four depending upon him for support. Earns \$3.50 a day, and earned \$1,050 last year. Lost thirty days' work through suspension of mining operations. Is a member of the Western Federation of Miners. Does not work around dangerous machinery, but handles explosives, and in the neighborhood where he worked during the year "three were killed in snow-slides, two killed by falling rock, one electrocuted, and one man killed handling explosives. There were also numerous minor accidents, non-fatal." Sanitary conditions in the mine he worked in are good. Spent \$400 for food, \$180 for fuel, \$125 for clothing, \$65 for sickness, \$150 for rent, \$50 for sundry expenses; total, \$950. Carries \$1,000 fraternal life insurance, at an annual cost of \$21.60. Does not own a home and has made no permanent savings. In the way of legislation he desires a bona-fide eight-hour law, workman's compensation act, weekly pay-day law, old-age pension, and state insurance against unemployment. The Bureau of Labor Statistics can best promote the interests of the wage-earners and the people of the state by giving publicity in every way possible to the low standard of wages paid to the unorganized workers, and in many cases to the organized, with figures to show the increased cost of living; the publication of the names of the corporations, department stores, and other institutions which are disbursing dividends at the expense of their employes, and the conditions under which the employes work and are compelled to live.

# Comparison of Wages Paid in Colorado with Those of Ten Years Ago

A comparison of the wages paid to mechanics in the different trades with those of ten years ago furnishes interesting data. When it is considered that the price of commodities, the price of actual living expenses, has increased an average of 60 per cent, it will be readily seen that wages have not even approached that percentage of increase. In fact, in many trades there has been no increase at all, and those that show increases are those that are the more perfectly organized. No other argument is necessary to prove the beneficial effect of labor organizations to the workers.

It must be remembered also that, compared with the increase of the population of the state, the membership of the various unions shows a large decrease in percentage compared with that of 1902. The main reason for this is the fact that at that time capital was not organized to combat labor, as is the case at the present day; and it is advisable at this time to issue a timely warning to capital, that labor is now down to the low condition of making a bare existence. The public schools of this nation are educating the sons and daughters of the workers to a high standard of intelligence, and an educated person will not be content

with a bare subsistence, especially so when it is known that "watered stock" is drawing large dividends from the fruits of their toil. The 100 per cent increase in the Socialist vote of the nation at the 1912 national election alone should be warning enough to thinking people of what may be expected if some measure of relief is not speedily afforded the workers.

Commissioner James T. Smith's report for 1901-1902 shows the following average scale of wages then paid in the given crafts. In the following table this is compared with the report of the same crafts in 1911:

Ĭ	Vages		
Craft—	1901-2	1911	Rate
Bakers	\$ 18.50	\$ 17.00	Week
Parbers	18.50	17.00	Week
Blacksmiths	$3.12\frac{1}{2}$	3.28	Day
Boilermakers	20.25	22.00	Week
Bookbinders	21.621/2	22.50	Week
Bricklayers	5.25	6.00	Day
Broommakers	2.00	2.70	Day
Car workers (railway)	3.25	3.42	Day
Carpenters	$3.37\frac{1}{2}$	4.45	Day
Cigarmakers	17.00	16.00	Week
Conductors, railroad	125.00	137.50	Month
Clerks, retail	11.00	13.00	Week
Cooks, with meals	18.50	22.00	Week
Electrical workers	21.49	22.50	Week
Engineers, stationary	82.50	85.00	Month
Garment workers, females	7.25	10.00	Week
Granite-cutters	22.00	26.25	Week
Hod-carriers	$3.16\frac{2}{3}$	3.58	Day
Harness-makers	20.10	21.50	Week
Lithographers	18.00	25.00	Week
Machinists	3.00	3.461/3	Day
Mailers, newspapers	16.50	16.50	Week
Marble-cutters and setters	22.00	27.50	Week
Miners, coal	19.02	25.00	Week
Miners, metal	3.00	3.00	Day
Molders, iron, etc	3.621/2	4.00	Day
Musicians	By engageme	ent, small incre	ease
Painters, house	3.50	4.00	Day
Photo-engravers	21.50	25.00	Week
Plasterers	24.05	30.25	Week

	Wages		
Craft—	1901-2	1911	Rate
Plumbers	4.25	5.00	Day
Pressmen, printing	23.00	23.25	Week
Press assistants	14.85	16.00	Week
Sheet-metal workers	3.75	4.50	Day
Stage employes	15.00	22.50	Week
Steamfitters	4.25	5.00	Day
Stereotypers	23.00	25,50	Week
Street railway employes	2.25	2.75	Day
Tailors	18.00	18.00	Week
Teamsters	15.00	18.00	Week
Telegraphers, railroad	65.00	70.00	Month
Trainmen, railroad	77.50	120.00	Month
Trainmen, switchmen	70.00	100.00	Month
Typographical	22.50 (Denver)	22.25 (state)	Week
Upholsterers	16.50	19.50	Week
Waiters, with meals	*13.75	*16.50	Week
Waitress, with meals	*9.25	*9.25	Week

<sup>\*</sup>Report based on wages paid in mining camps and Denver. A fair average on wages paid in the state would be at least 2 per week less than figures given. Same average would also apply to cooks.

# Colorado's Industrial Survey, 1912

The law creating the Bureau of Labor Statistics cites (sec. 12): "All such other information in relation to labor as the commissioner may deem essential to further the objects sought to be attained by this statute." In compliance with this section, it is deemed proper to give a more detailed statement of labor conditions in this state than can be gleaned from the bare statistics presented in other chapters of this report.

The "estimated" statistics presented in our daily newspapers of the progress made in the last two years in the many industries are well known to be printed more in the nature of "boosts" for the state's industries than to present actual facts, and as such are to be commended for what good they may do in assisting the development of the state, and thus making work for the wage-earners and business for the merchants, and assisting to attain an era of prosperity for all.

Colorado has an enormous number of undeveloped resources and for the capitalist presents an inviting field. Capital is what is needed in Colorado to develop these resources; of labor, with the possible exception of harvest seasons, we have plenty and to spare.

### SKILLED LABOR

The reports received from the various trades, and from office help requiring clerical ability, show that there has not been more than 75 per cent of this class of labor continuously employed in the last two years; and particularly is this the case in the building industry. The result of this has been that numbers of skilled workers have been glad to accept positions as unskilled laborers, in which, for their labor, they have not received much more than one-half the wages they would receive if steadily employed at their trades. And this condition will continue and is inevitable with the continued use of more and more labor-saving machines, displacing the skilled worker. In fact, it must be recognized that the words "skilled laborer" are fast getting to be a misnomer, as the mechanic in various lines is now kept working on separate and distinct parts of machinery, instead of, as was formerly the rule, working on the whole machine and requiring a thorough knowledge of all parts of the various machines or articles manufactured. Specializing is now the rule in all lines of industry. A mechanic is kept working on work that an apprentice with a few months' experience might do equally as well. This fact is well recognized by the trades-unionists, and from it comes the rule limiting the number of apprentices allowed to the number of mechanics employed. The hue and cry that is made against the trades-unionists "debarring" a boy from learning a trade, and from which much opposition to the trade unions has arisen in certain quarters, is caused by the ignorance of the ordinary person of the economic reason for the limiting of the number of apprentices. And, indeed, this limiting is a real protection to the boy himself; for it would manifestly be an injustice to the youth to permit him to waste his time and talents learning a trade at which he could not obtain employment after he had mastered it.

While not in Colorado, perhaps, to the same extent as in other states, women are also displacing numbers of skilled workers by the advent of the machine. Work that formerly required considerable muscular skill is now done by the machine, with little muscular skill necessary. Women can be employed at a less rate of pay than men, and, naturally, are given the preference. The result of these conditions is that skilled mechanics are fast being relegated in large numbers to the ranks of common laborers, or idleness.

# COMMON LABOR

The year 1911 was a very poor one for both skilled and common laborers in Colorado. Crops were poor by reason of insufficient moisture, so that there was little demand for farm labor; and, in addition, there was little railroad or irrigation ditch building in progress. There were hundreds of common and skilled

laborers out of employment during this year. The year of 1912 has, however, been very good for common labor, but still poor for the skilled artisan. Good crops, and many enterprises requiring many unskilled laborers, made it possible for nearly every ablebodied man, that wanted to do either farm or common labor work, to obtain employment. Wages advanced from a general average of \$2 per day to \$2.25 or \$2.50 per day, because men were wanted.

### WOMEN WAGE-EARNERS

The great number of women workers that have invaded the industrial field makes the problem of legislating for the protection and safeguarding of the moral and physical welfare of our womanhood most perplexing, and well worthy of the best efforts

of our legislators and public men.

There are five distinct woman trades unions in the state, and the women following these lines are fairly well protected by their respective unions. There are also some unions—as, for example, the typographical unions—that have a small percentage of women members. The women belonging to these unions receive equal pay with the men for equal work performed. Of the women's unions, the garment workers' of Denver is the largest in number. They have the eight-hour workday and earn sufficient salary to make them self-supporting. The same can be said of the bindery women and waitresses; but the laundry women are poorly organized and cannot be said to all earn a wage sufficient to keep them at the American standard of living. Of the tobacco-strippers practically the same may be said. Most of the members of this union, however, live with their respective families.

The stenographers' pay is guided mostly by the skill of the worker. Many receive good salaries, but the average is about \$50 They may be classed among those women who earn sufficient pay to support themselves. The opportunities, however, for obtaining desirable employment at this occupation are becoming scarce, the supply more than keeping pace with the demand; and this fact holds good in nearly every line of desirable work for Store clerking, bookkeeping, and all manner of clerical work are overcrowded; there are more applicants than positions. The American girls, as a rule, do not take kindly to what the "oldfashioned" people considered their natural sphere of labor-house-There are many reasons for and against them in this; but after all has been said the fact remains that it is a deplorable fact, and one that is not conducive to the general welfare of the American home. The girls complain that a large number of their employers are overbearing and not skilled in the treatment of their help; that they are too much debarred from liberty; that their hours of labor are excessive, and they lose social standing. The employers, on the other hand, make the charge that the average American girl is not properly trained in housework and knows little about cooking; in fact, that her home training is

badly neglected. Certainly a serious charge, and one that should command the serious attention of the mothers of girls.

There is always a demand for competent house help; the pay is good, and the girls are removed from temptation. A competent maid can afford to be independent; she can choose her own mistress, can command good pay, have a good home, and, with intelligent people, commands more respect than does the worker in al-

most any other vocation.

The charge of the young women that many of the mistresses are unreasonable in their demands, and are not fitted by temperament, experience, or ability to be at the head of a household and direct hired help, is, from the experience gained in the wage collection department of the bureau, also found to be true. Numerous complaints are constantly being made to the department of failure to collect wages due when help desire to change their positions. The spirit of petty spite seems to enter into these cases, and, no matter how faithfully a young woman has served her mistress, the desire to hold up the pay of the help, and otherwise annoy her, seems to be a favorite diversion of the mistress at these times. Sometimes even worse cases are reported, when the mistress openly charges dishonesty against the character of a girl, without a semblance of truth, blackening the character of a young woman to gratify malicious instincts.

The cry of women that they aspire to some more "elevating" occupation than that of housework is not to their credit, and the maudlin sentiment of snobbery or laziness that actuates this cry should no more be encouraged than should that of the mechanic, hod-carrier, or laborer who prefers to loaf rather than work, and offers no better excuse than that he does not consider his occupation worthy of his ability. Every woman or man worth while has ambition. The way to gratify it is to give honest and faithful service, and to say, as did the immortal Lincoln: "I will prepare myself, and perhaps some day my opportunity will come." That "opportunity" should be the reward of faithful service, and it will be found more readily in the home life of the people than in slaving in workshops, factories, offices, or large stores, conducted by corporations that are apt to regard their workers no more highly than they do their machinery or stock in trade. There are two sides to every question; each is sometimes right, and both are sometimes wrong. The workers are entitled to decent treatment and a living wage commensurate with the profits of the industry; the master is entitled to faithful service.

The poorest-paid among the women wage-earners are those that work in stores, laundries, and factories that are not protected by the unions. In many of these places is found, by the starvation wages paid, a direct temptation for girls to become immoral. A young woman cannot possibly live on the wages

paid in some of these establishments, and must either live with her family or obtain some other assistance, to make ends meet. The department has conducted an investigation into the wages paid and the manner of existence of the young women working in these places, and here appends the answer received from some workers in these establishments:

Female help in alteration room of department store: Single woman and supports herself. Receives \$7 per week when working full time. Pays \$4 per week for board and room, and 60 cents per week for car fare. Works an average of fifty weeks a year, less holidays that are deducted from her pay. Says that money left after paying expenses goes for clothes, and adds that she "dresses very poorly."

Widow with child: Works in a laundry on shake-table. Earns \$3.50 per week. Lives at home with parents, and turns over her wages every week to them. Works nine hours a day, and loses no time. Parents assist her.

Worker in laundry: Earns \$12 per week, and supports herself. Pays \$5 per week for room and board, and 60 cents per week for car fare. Uses the remainder for living expenses. Has nothing saved for sickness, and belongs to no fraternal organization or union. Works nine hours a day.

Worker in candy factory: Supports herself. Wages, \$4.50 a week. Pays \$1.25 a week for room rent, \$1.50 for board, and 60 cents for car fare. Works full time, 312 days a year, less holidays. (Comment on this case is unnecessary. The facts presented are absolutely true.)

Female worker in biscuit factory: Employed in the packing department. Works piece work. Earns an average of \$8 per week. Pays \$5 for room and board, and 60 cents for car fare. Loses about two days a month. Says that she spends \$130 a year for clothing.

Female worker in biscuit factory: Employed in icing, day work. Wages, \$7.50 per week. Pays \$5 for room and board, 60 cents for car fare, and 40 cents for laundry. Loses two days a month and all holidays.

Clerk in department store: Receives \$8 per week wages. Pays \$4 per week for board and room, and 60 cents for car fare. Works full time, and is paid for all holidays. Supports herself, and belongs to no lodge or fraternal society.

Female employe in creamery: Wrapping butter, piece work. Averages \$6 per week. Pays for board and room \$4 a week, and 60 cents for car fare. Lives with parents. Works forty-eight hours a week in summer, and loses much time in winter.

Widow, employed in millinery store: Wages, \$10 a week. Pays \$3 a week for room, \$4 for board, and 60 cents for car fare. She can work 312 days a year, less holidays, for which she is

not paid, and is allowed to take one or two weeks' vacation without pay. This condition applies to competent workers, which were the only ones employed when the establishment was visited by the deputy from this department. During the busy season cheaper help is used to assist, and \$7 a week is the usual pay for them.

Chocolate dipper in candy factory: Piece worker. Averages \$11 a week pay. Pays from \$4.50 to \$6 for board and room, 60 cents for car fare, and spends \$160 a year for clothing. Works full time, with exception of some seasons of the year when business is slack and a few hours a day are lost. Other employes of factory, such as packers, receive from \$3.50 to \$5 per week.

Stenographer in attorney's office: Receives \$8 a week; started at \$6 a week. Average pay for women doing this work will run from \$10 to \$11.50 a week. Works eight hours a day. Lives with parents.

Attends reception room in photographer's gallery: Receives \$18 a week; retoucher gets \$15 a week. Works from 8:30 to 6 o'clock, with one hour off for lunch. Girls employed in remounting photographs receive from \$3 to \$10 a week.

Sales ladies in dry goods store: Receive from \$4.50 to \$12 per week, with one cent commission on sales of over \$50 a day.

Many of the self-supporting sales ladies and other female help live in apartment houses. Two of them will club together and engage a buffet apartment, the cheapest of which can be rented for \$5 a week. Steam heat is furnished, with hot and cold water. The women can board themselves, and on Sundays do considerable of their laundry, and can by these means live more economically than they could by boarding in restaurants. In addition, they have their own apartment, can do their own cooking, and perhaps enjoy a better, more home-like existence than they could by boarding.

The experience of two of these young women was told to a deputy of this department, and is worth relating here: It appears that the girls were paying \$5 a week for their apartment, and could rent the same for \$20 a month by paying in that way. They saved up, and finally got \$20 together between the two of them, and paid it over to the proprietor; but they found that, after paying this money, they had just 10 cents between the two of them for provisions for three meals, for which they purchased oatmeal, and subsisted on that until they drew their weekly pay.

No woman should be expected to support herself on less than \$10 per week, and even this sum gives her but a scrimped existence. The natural desire for company, amusements, jewelry, and pretty clothes is the temptation that leads many to accept a sweetheart that will furnish these things for favors received; and it is observed that it is not the factory girls—or, in fact, the girls that are employed at hard manual labor—that

are the easiest tempted. The natural instinct of women is to be pure. The way to keep them so is to see that they receive a wage sufficient for them to live upon respectably. The labor unions have done more to promote morality among the women workers than all other influences combined. The employer that pays his women workers starvation wages, and donates large sums to maintain churches and foreign missions, is promoting immorality and insulting the Lord. Such is the forced conclusion of the Labor Department, from exhaustive investigations made by That this view is greatly shared by the people of the state was amply demonstrated by the large vote recorded for the passage of the initiated woman's eight-hour law, which carried by far the largest majority given any of the thirty-two measures submitted to the people at the last state election; this law receiving a majority of 76,850, or nearly double the majority given any other measure submitted, and much more than double the majority for or against the larger proportion of the measures submitted.

#### FOREIGN LABOR

Among other things required in the law creating the department is that of a report upon the number, habits and condition of the Chinese in the state. As the passage by Congress of the Chinese exclusion act, some years ago, has practically stopped the arrival of this class of immigrants, no lengthy report is longer needed. The Chinese population has ceased to be a menace; what few are left are engaged in laundry work and in small numbers in the beet fields. The Japanese have supplanted the Chinese, and they are chiefly engaged in doing housework, fruit-picking, as saloon porters, and in the beet fields. The agitation against this class of labor has lessened to a great extent the influx of these aliens, who a few years ago threatened to become a serious menace to the welfare of the native laborers.

The major portion of the foreign labor that is now threatening the extinction of the native laborer comes from southern Europe-Greeks, Slavonians, Bulgarians, Magyars, Montenegrins, Albanians, and even Turks; and, in fact, all the nationalities that inhabit the Balkan peninsula. These foreigners have been coming here in the last few years much faster than the "melting pot" could aborb them. The large corporations of the state are accused of importing them because they can be handled and abused with impunity. However, they, like the Italians, seem to offer a fruitful field for the labor organizer, and while numbers of them have been and are furnishing the strikebreakers for the northern coal operators, it is more than likely that, as soon as they become accustomed to American conditions and acquainted with their rights as citizens, they will prove as stubborn and uncontrollable as the Japs have proved themselves to be in the industrial field; they will no longer be classed among

the desirables by the labor-skinning employers, and the native laborer will again come into his own.

#### THE AMERICAN LABORER

The observations of the Department of Labor of Colorado as to the relative merit of the different nationalities of laborers employed in the state can, without prejudice and with a most profound sense of impartiality, easily give the palm to the native American laborer. Those corporations and employers who, from a sense of inexperience or prejudice, supplant him with the horde of foreigners, because for the time being these men will be more docile to abuses put upon them, do it with a short-sighted policy that is, from the logic of the situation, bound to be reactionary.

The American laborer wants a fair day's pay for a fair day's work; he wants all that is justly coming to him, and he desires to raise his family at the American standard of living. He spends his pay attaining this end—not in living like swine in a hovel, and sending the major portion of his pay to a foreign country, and thus taking it out of the circulating channels of his native country and state. He is taught to regard and obey the law, although events plainly show that he receives little of this part of his education from his employer, as a rule. The time has arrived when the native worker should receive from the hands of our lawmakers a far greater measure of protection than has been the case in the past.

Some laws must be enacted limiting the importing of hordes of foreign laborers. There are plenty of workers, and to spare, to do all the work of the nation and this state; and a larger portion of the profits of industry must go to the worker that creates them.

## WHY GETTING TIRED MAKES MANY CRIPPLES

No inhuman and merciless sultan of a barbaric country ever devised a more cruel torture than that of placing his slaves in such a position that on the slightest lack of attention on their part their hands should be lopped off at the wrist. Yet this is exactly the position that is taken in thousands of American factories today.

"The margin of safety in modern industry," says a recent report on industrial accidents, "is small. It is measured too frequently by fractions of an inch. Reduce the alertness and the exactness with which the body responds to the necessities of labor (as when the worker is tired), and by just so much have you increased the liability that the hand will be misplaced—that fraction which means mutilation."

The statistics of industrial accidents tell the story with a clearness which is amazing. In a compilation of the number of

accidents in factories in Illinois for a year, there were 120 accidents between the hours of eight and nine o'clock in the morning, but there were 257, or considerably more than twice as many, between the hours of eleven and twelve o'clock in the morning. Similarly, there were 111 accidents between one and two o'clock in the afternoon, after the noon-hour rest, but there were 260 between the hours of four and five o'clock in the afternoon. In other words, the two periods when the workers were tired gave rise to 517 accidents, as against 231 when work was beginning. This is a fearful penalty to inflict for the crime of being tired.

A tabulation of the exact causes of these accidents was made, and 2,687 of the persons injured gave a fairly accurate description of what had happened preceding the accidents. Of these, 2,203, or over 82 per cent, "conceivably might have been avoided if the injured, or the fellow-servant who was the cause of the accident in some cases, had possessed accurate muscular control." The time at which these accidents occurred also was given, and showed the same preponderance of disasters between the hours of eleven and twelve, and again of four and five in the afternoon. In Germany and France the same rule holds true, save that the morning accidents are shown to be more frequent between ten and eleven o'clock, owing to the earlier hour at wihch the operatives begin work and the almost universal custom in Europe of keeping the mills running continuously and the workers going to dinner in two shifts. It is not enough to make the margin of safety against accident sufficiently good to be applicable when the machine-user is fresh; the margin must be great enough to insure his safety when he is tired; for the millennium has not vet come when Labor can be divorced from Fatigue.

# CHAPTER IV

## INDUSTRIAL DISPUTES

## THE NORTHERN COAL FIELDS STRIKE

The strike in the northern coal field still continues. During the year the condition of the district has improved, and at the present time the great majority of the union coal-miners who remained in the district have gone to work. This was arranged when the American Fuel Company, which operates several mines in Boulder and Weld Counties, decided to sign an agreement with the United Mine Workers of America, which it did on March 5, This was followed by a number of the independent mines taking the same course and signing a like agreement. The Rocky Mountain Fuel Company, a Wyoming corporation, which is the successor of the Northern Coal and Coke Company, and operating ten mines in the district, and which has refused to entertain any proposition for the settlement of the strike, during the summer applied and obtained a dissolution of the injunction restraining the miners, granted by Judge Greeley Whitford, of the Denver District Court, and made an application to the federal District Court for an injunction against the miners, alleging that neither Governor Shafroth as representing the state authorities, nor Sheriff Capp as representing the authorities of the County of Boulder, was willing or able to control the situation or give them and their property the necessary protection. The application was made to Judge Robert Lewis, when sitting in the federal court at Denver. This application was supported by a number of affidavits put in by the attorneys for the company, and it was opposed by the union. The application was denied in sweeping terms, and Judge Lewis upheld the right of strikers to picket. Just prior to this application being heard, what might have ended in very serious trouble was started by an unprovoked assault upon an Italian miner who was a member of the union. sault aroused the foreign miners to such a pitch that they attempted to take summary vengeance upon the offending parties, and attacked a mine in which the man who started the trouble was supposed to be hiding, and, but for the prompt action of Sheriff Capp and the district and local officers of the union, the trouble would have assumed serious proportions. During the evening of the day on which the occurrence took place, while the district was in an excited condition, some three or four hundred shots were fired from the stockades at Hecla Heights, and within

a few days the same tactics were used at several of the non-union mines near Lafayette. Fortunately no one was injured, but several untrue statements were published in Denver papers about a man's head having been blown off with buckshot. On inquiries being made, it was found that the statement was made by a correspondent whose regard for truth was not so great as his desire for notoriety. Warrants were issued for twenty-seven union men, charged with offenses connected with these disturbances, and they, without a single exception, went into Boulder and surrendered themselves to the sheriff. Tony Morello, the man who started the trouble, however, in spite of the fact that Mr. Slater, the man who has charge of the Baldwin-Phelps contingent of gun men employed by the Rocky Mountain Fuel Company, gave Sheriff Capp an order stating that he should be surrendered, never gave himself up, but by some arrangement with the district attorney's office was allowed to remain at large.

These occurrences, together with the fact that all the trouble happened just prior to the application of the Rocky Mountain Company for a federal injunction, caused grave suspicion in the minds of the union men, and the union officials openly express their belief that they were deliberately planned for the purpose of influencing the federal courts in the matter.

Following these disturbances, and Judge Lewis' decision denying the injunction, the condition of the district again became normal. The American Fuel Company, having obtained a number of large contracts, was able to run its mines to their full capacity, and public sympathy began to be shown in favor of the miners, the demand for union-dug coal increasing every day. The effect of this is shown by the following tables, giving the mines employing non-union labor and their output for the month of November, 1911, and the output for November, 1912, where those so marked were employing union miners:

## NON-UNION MINES

		Output	Output
Mine	Operators	for 1911	for 1912
Simpson Mine	Rocky Mountain Fuel C	Co 18,943	8,208
Standard Mine	Rocky Mountain Fuel C	Co 16, 328	10,038
Vulcan Mine	Rocky Mountain Fuel C	Co 9,630	5, 119
Mitchell Mine	Rocky Mountain Fuel C	Co 2, 369	5,049
Rex Mine No. 1	Rocky Mountain Fuel C	o 13,556	6,626
Rex Mine No. 2	Rocky Mountain Fuel C	co 1,789	1,339
Hecla Mine	Rocky Mountain Fuel C	co 7,648	3,455
Gorham MineF	Rocky Mountain Fuel C	o 10,442	8,736
Industrial MineF	Rocky Mountain Fuel C	co 11, 457	6, 613
Monarch Mine No. 1	ational Fuel Co	9,896	4,991
Monarch Mine No. 2	Vational Fuel Co	7,686	5, 134
Non Pareil MineB	rooks-Harrison	3,744	2,705
Puritan Mine	ational Fuel Co	16,996	12,472
Park Dale Mine	ational Fuel Co	10,638	7,366
Golden Ash MineB	aum Co	14, 952	13,968
Warwick MineControlled b	y Rocky Mountain Fue	el Co 2,154	89
			reconstruction of the second s
		158, 288	101, 908

Showing a decrease in the output for November, 1912, over November, 1911, of 56,380 tons.

#### UNION MINES

		Output	Output
Mine	Operators	for 1911	for 1912
Capitol Mine	.American Fuel Co	5,563	13,267
Matchless Mine	American Fuel Co	2,534	9,109
Fox Mine	American Fuel Co	3,770	15,743
Centennial Mine	\merican Fuel Co	2,837	10,401
Senator Mine	American Fuel Co	454	4,500
Strathmore Mine	American Fuel Co		3,502
Evans Mine	American Fuel Co	3,902	5, 283
Ideal Mine	Independent Fuel Co	764	1,044
Shamrock Mine	Independent Fuel Co	996	1,054
		20,820	63, 901

Showing an increase in the output for November, 1912, where union men were employed, over November, 1911, where non-union men were employed, of 43,081 tons.

During the year 1912 nine men lost their lives in Boulder and Weld Counties in mines operating with non-union men, and during the same period in the same district only one man lost his life

in mines operating with union men.

The struggle for existence between union and non-union companies became acute, and the Rocky Mountain Fuel Company in December began a coal war in the market by making reductions in prices at Boulder, and threatened to extend the cut to Denver and other markets. The union men, at once realizing that this move was in reality aimed solely at the union, and that the ruining of the American Fuel Company was merely an incident in the campaign of opposition to organized labor, met in convention and thoroughly discussed the new phase. Following this convention, it was taken up by all the local unions, and they decided to stand by the American Fuel Company, and tendered to that company their assurance that they might rely upon their loyal support. The spirit of the miners can best be illustrated by a quotation from a speech made at the Louisville meeting by an Italian miner:

"The United Mine Workers feed our wives and babies. American Fuel Company give us the powder and oil, and we digga the

coal for nothing."

The majority of the old-time miners in the northern coal fields own their own homes and have built up their towns, and they recognize fully that to allow any combination to ruin a coalmining company which was favorable to union labor would be a blow at them individually as to their property rights, and collectively as to their organization, and they intend to meet any and

every move that may be made in this direction.

The latest move is one of the most important ever taken in the history of coal-mining disputes, and will doubtless be farreaching in its effect. Hitherto coal operators have always been able to make the consumer pay for any and all disputes they may have with their employes, by raising the price of coal. course was adopted by the operators in the northern fields, who raised the price to the consumer from \$1 to \$1.50 per ton. doing this they were not only able to recoup themselves in a very large measure for the attendant expenses of the strike, but also to create a prejudice in the public mind against all forms of or ganized labor. Today there is a determination on the part of the union miners to alter this and to remove the fighting ground to the actual markets for coal, and compel the operators, when they precipitate unreasonable fights, to do what the unions have always had to do, no matter how reasonable their cause-viz., to pay the expenses out of their own treasury.

## REPORT OF SECRETARY OF STATE JAMES B. PEARCE

On December 7, 1911, after consultation with the Governor, Secretary of State James B. Pearce a second time started for the northern coal fields, accompanied by two assistants of the department to examine conditions and report on the situation

ment, to examine conditions and report on the situation.

The trip was occasioned, like the first visit made in August, 1910, by a strenuous and determined effort to induce the Governor to order the National Guard into the field, contending that the sheriff was no longer able to maintain order, and that the lives and property of the people in the strike section were unsafe; that lawlessness was general and crimes were being committed, and that the sheriff no longer could control the situation. Two days and nights were spent in the examination. Conditions were found to be better than had existed at the time of the first inspection; in fact, both sides appeared to have exhausted themselves. Too much liquor at times was being consumed by the men behind the stockades, causing some trouble, but nothing out of the ordinary was happening, except small difficulties, mostly of a personal character, the natural outcome of the many months of strife between the contending forces, where one would meet the other and by the use of taunting words start trouble.

There was nothing to indicate a condition which would warrant a resort to the military arm of the state government to keep the peace and protect lives and property; on the contrary, it appeared to be just a policeman's job. Had the business men of Boulder County faced the other way and talked peace, and used their influence with and for the sheriff to preserve order, instead of with and for him to demand the National Guard, there would have been no effort made with the Governor at that time to order

the militia into the field.

Within a week after this visit, and the report had been made to the Governor that the National Guard should not be sent to Boulder County, the mine operators themselves admitted that the sheriff could preserve order.

Certain interests have for so many years been accustomed to break strikes with the militia that it is a difficult thing to break them of the habit. It is much the cheapest and speediest method for them, as the taxpayers of the state pay the bills. A striking illustration of this is given in the bond issue of over

\$950,000 issued to settle the Cripple Creek war debt.

There are always two sides to these strike situations, and neither party in the controversy is right all the time. The state authorities are representing both sides, as well as all of the rest of the people not engaged in the fight, but who have great interests at stake, depending on a settlement of the trouble. It therefore behooves them to be extremely cautious in considering representations made by either side, well knowing that the contending parties are seldom fair to each other, and that a separate and independent investigation is always the safest.

The militia should never be used until every other remedy is exhausted, and then only to maintain order, and should not

take sides or be used to break a strike.

## THREATENED STRIKE OF COAL-MINERS AT ROCKVALE

In the early part of October, 1911, several hundred coalminers threatened to strike because of dissatisfaction with the method of weighing coal, and although the men were not members of any union of their calling—unorganized men—they listened to the suggestions of union officials and appealed their case to the Governor of the state and the Deputy Labor Commissioner, Edwin V. Brake, with request that the laws of the state be enforced in the matter of coal being weighed and measured before screening.

Deputy Labor Commissioner Edwin V. Brake visited the district of the trouble and counseled with the men, reporting his findings to Governor Shafroth in the matter. Upon this report a commission was appointed by the Governor, consisting of Mr. E. H. Weitzel for the Colorado Fuel & Iron Company, Mr. John Lawson, executive board member of the United Mine Workers of America, acting for the men, and Mr. James Dalrymple, State Coal Mine Inspector, for the state. These gentlemen effected a compromise, which was partially satisfactory to the miners, and the threatened strike was averted. The following is the official report upon this subject:

Denver, Colo., October 28, 1911.

His Excellency John F. Shafroth, Governor of Colorado.

Sir: In compliance with a petition addressed to the Governor of Colorado and E. V. Brake, State Labor Commissioner, signed by several hundred employes of the Colorado Fuel & Iron Company, and supplemented by a request from yourself that I would personally make an investigation of the facts contained in the said petition, I wish to state: I made a trip to the property of the Colorado Fuel & Iron Company at Rockvale, Colorado, and made an investigation, the result of which is contained herein.

I find by reference to section 663, page 325, Revised Statutes of Colorado, 1908, that it is prescribed how and in what manner coal should be mined, as quoted herewith:

"Coal weighed and measured before screening—Pay—Sec. 26. All coal mined by the ton or by weight shall be weighed in the car or other apparatus in which it is removed from the mine before it is screened or before it is passed over or dumped upon any screen or any other device which may let or be capable of letting a portion of the coal drop through such screen or device, and it shall be paid for according to the weight so ascertained at such price per ton as may be agreed upon by such owner or operators and the miner or miners who mine the same. All coal

mined and paid for by measure shall be paid for per car according to the number of bushels marked upon the car or other apparatus in which it is removed from the mine and without the coal thereof being screened or without it being passed over or dumped upon a screen or any device which will let any portion of the coal fall through such screen or device." (L. '01, p. 236, 3.)

It was the evident intention of the legislature to make the law plain and specific that all coal should be weighed and paid for on the mine-run basis. I find by my investigation at Bear Creek and Rockvale, where some 650 or 700 men are employed by the company, that it has adopted a new system of weighing coal, in direct violation of the statute as quoted above. The system now in operation at both mines is as follows: When the coal cars are hoisted to the surface, the coal is weighed mine-run, and then dumped upon a shaker screen or screens. The top screen has a mesh of two and one-half inches. This screen is in motion continually, agitated by power, and all the coal that passes over this screen is designated as lump coal. That is weighed, and the miners are receiving \$1.20 per ton. All of the coal that passes through the first screen then passes over a second screen that has inch meshes. There all the slack that can pass through the inch meshes goes into the slack pile, and all that does not pass through goes into egg or nut coal. The miners receive for both the egg or nut coal and the slack, 20 cents per ton. Previous to the new system adopted by the Colorado Fuel & Iron Company, they were paying 85 cents per ton for mine-run of 2,000 pounds; so you will see that the miners are receiving 35 cents per ton increase in their wages on the lump coal, but they are receiving 65 per cent less pay for the egg, nut, and slack. As near as I could determine, the slack at the Rockvale mine would be about 2 per cent. At the Bear Gulch mine, operated by the same company, the coal is much softer, consequently more slack.

The contention of the men is that the law provides for weighing and payment on a mine-run basis, and that they have to submit, under the new arrangement, to the weighing of their coal twice; and they do not believe that they get correct weights at that. They claim that the nut coal commands within 50 cents per ton the same price as the lump in the markets of the state, and that they are receiving only 20 cents per ton for the mining of the same.

The men in this field are unorganized, and only consented to return to work with the understanding that the state authorities would do everything in their power to induce the company to return to the mine-run basis. There is no question in my mind but what the contention of the men, that the company is violating the law, is correct, and I deem it our duty to take the matter up with the proper officers of the Colorado Fuel & Iron Company, and do everything possible to induce them to obey the law; otherwise I am satisfied that the men will not work under the present system of weighing coal.

Dissatisfaction is wide-spread. Some of the men employed at Rockvale have been there twenty years, own their own homes, and are entitled to some consideration at the hands of the com-

pany, as well as by the officials of the state.

I would recommend to your Excellency that you take the matter up with the officers of the Colorado Fuel & Iron Company, and try to get them to return to the former basis of weighing the coal, and, upon failure, to induce them to obey the law. I think they should be prosecuted. This company being the largest producer of coal in this state, it seems to them that they are immune from the operations of the law, where they-should be the first in the state, having large property interests, to obey the law. It has been the policy of this company to violate all the laws on the statute-books of Colorado that have for their purpose the protection of the wage-earners, and it is time that it was brought to the realization of the fact that Colorado is bigger than any corporation doing business in the state. In times of depression like this, it is poor policy for the company to violate the law and bring about an industrial disturbance which will undoubtedly grow, unless the company obeys the laws as quoted above.

I trust that you will take this matter up immediately, and if there is anything that I can do to assist you in any manner to bring about a settlement of this character, I am at your service.

Yours respectfully,

(Signed) EDWIN V. BRAKE, Deputy State Labor Commissioner.

Denver, Colo., November 28, 1911.

Hon. John F. Shafroth, Governor of Colorado.

Dear Sir: We, your committee appointed November 13, 1911, to investigate the controversy between the Colorado Fuel & Iron Company and their employes at the Fremont mine, located in Fremont County, Colorado, desire to submit for your consideration.

tion the following report:

We visited the mine November 20, 1911, and there met Mr. E. H. Weitzel, general manager of the Colorado Fuel & Iron Company, the third member of your committee. We inspected some of the daily and monthly reports of the output of the mine. We then visited the tipple and inspected the method employed in

dumping, screening, and weighing the coal.

The coal is first dumped from the car, while standing upon the cage, into Basket No. 1, and weighed mine-run. The door of the basket is then opened and the coal is run over a screen  $17\frac{1}{2}$  feet long by 5 feet wide, set upon an incline of  $12\frac{1}{2}$  degrees. This screen is perforated with holes  $2\frac{1}{2}$  inches in diameter. The screen is kept in motion by power, has an 8-inch stroke, and has what

is known as a back-action motion. The lump coal going over the screen is caught in Basket No. 2, and is again weighed, and the miner is paid at the rate of \$1.20 per ton for it.

The coal going through the perforations in the screen is again separated into nut, pea, and slack. The miner is paid at the rate

of 20 cents per ton for coal of this character.

Formerly, when all coal was weighed in Basket No. 1 and paid for on the mine-run basis, the miner was paid at the rate of 85 cents per ton for all coal mined.

Mr. Weitzel stated that when the system of weighing and paying for coal on the mine-run basis was changed to the screened-coal basis, the perforations in the screen were reduced from 3 inches to  $2\frac{1}{2}$  in diameter.

This change has increased the percentage of lump coal about  $6\frac{1}{2}$  per cent, and decreased the percentage of nut coal about  $6\frac{1}{2}$  per cent, the percentage of slack and pea remaining the same.

Tuesday morning, November 21, 1911, we visited all the working places inside the mine. The mine is operated on the long wall system. We measured the height of the coal in several places, which ranged from 4 feet 3 inches to 5 feet, with a seam of dirt running through the coal near the foot wall, measuring from 1 inch to 6 inches in thickness. In some of the working places the coal was in fair condition, while in others it was very badly crushed. Some of the places were in better shape than others.

Much might be said concerning the ability of the individual miner and the condition of the different places they were working in; also of the system under which the mine is being worked.

Mr. Weitzel informed us that it was not the intention of the company to reduce the wages of the miners when they changed the system of weighing coal from mine-run to the screened-coal basis. He also stated that some of the miners were not trying to increase the percentage of lump coal. If this is the case, in our opinion, it is because the miners do not know how to increase the percentage of lump, and not because they are willfully trying to keep the percentage of lump coal from increasing.

Mr. Weitzel also informed us that any decrease in the earnings of the miners through the change of systems of weighing was made up for the month of October, making their pay equal to what it would have been on a run-of-mine basis. The miners contend, however, that only part of the men received the shortage, or the amount they would have received under the run-of-mine

basis.

Looking at this proposition from a fair and impartial standpoint, and as to how it affects both operators and miners, we find the following:

The total production of the Fremont mine for the month of August, 1911, was 12,526 tons, as follows:

Lump coal
Nut coal
Slack and pea coal
September, 1911—total production, 4,342 tons, as follows:
Lump
Nut
Pea and slack
October, 1911—total production, 7,339 tons, as follows:
Lump
Nut
Pea and slack

Assuming that the price of coal f. o. b. railroad cars at mine was the same for the three months, and was as follows: lump, \$3.25 per ton; nut, \$2.50 per ton; pea and slack, 75 cents per ton; and that the miners for August and September were paid on a run-of-mine basis of 85 cents per ton, and for October the miners were paid on a lump-coal basis, as follows: lump coal, \$1.20 per ton, and screenings, 20 cents per ton, the miners' earnings for the month of August, amounting to 12,528 tons at 85 cents per ton, equaled \$10,648.80. The miners' earnings for the month of September, 4,342 tons at 85 cents per ton, equaled \$3,690.70.

The company's receipts for August were as follows:

6,947 tons of lump, at \$3.25, equaled\$2	2,577.75
2,803 tons of nut, at \$2.50, equaled	7,007.50
2,778 tons of pea and slack, at \$0.75, equaled	2,083.50

\$31,668.75

An average price per ton of \$2.53 nearly, for the total production of the mine for August.

The company's receipts for the month of September were as follows:

2,372 tons of lump, at \$3.25, equaled	\$7,709.00
971 tons of nut, at \$2.50, equaled	2,427.50
999 tons of pea and slack, at \$0.75, equaled	749.25

\$10,885.75

An average price per ton of \$2.51 nearly, for the total production for the month of September.

The company's receipts for the month of October, 1911, were as follows:

4,580 tons of lump, at \$3.25, equaled\$	14,885.00
1,141 tons of nut, at \$2.50, equaled	2,852.50
1,610 tons of pea and slack, at \$0.75, equaled	1,207.50

\$18,945.00

An average price per ton of \$2.58 nearly, for the total production for the month of October.

The earnings of the miners for October were as follows:

4,580 tons of lump, at \$1.20 per ton, equaled\$	5,496.00
2,751 tons screenings, at \$0.20 per ton, equaled	550,20

\$6,046.20

Taking the earnings of the miners for this month and dividing them by the production, we get  $$6,046.20 \div 7.338$  tons  $= 82\frac{1}{2}$  cents per ton paid the miners.

In order to get the average price of all coal produced for August and September, we will add the production of the two months together and divide it by the total receipts for the two months, which gives an average price for these two months of \$2.52 per ton, against \$2.58 per ton for October, and, adding the .02½ cent per ton less paid to the miners in October, makes a difference of .08½ cent per ton; or, in other words, the miners received 85 cents per ton for all coal mined in August and September, the percentage of lump being 55.04, and at the above prices the company received \$2.52 for all coal mined in August and September.

In October the miners received 82½ cents per ton for all coal mined, the percentage being of lump 56 per cent, after allowing 6½ per cent for reduction in perforations in screen, while the company received \$2.58, plus 2½ cents less paid the miners, or \$2.60½ per ton.

So, from these figures it is evident that in October the miners worked at a reduction, while the percentage of lump coal increased 96/100 of one per cent, after allowing 6½ per cent increase for the reduction of the perforations in the screen.

Under the lump-coal basis the miner must produce 65 per cent lump coal in order to make the same wages he made on the run-of-mine basis. This, in our opinion, is too high a percentage of lump, and we believe, unless some radical changes take place, this percentage of lump will not be obtained; so there is very little encouragement for the miner under the present arrangement.

In conclusion, it appears to us that if a change from the run-of-mine basis to a lump-coal basis is to be made, it should be made on such a plan that the wages of the miners will not be reduced.

Respectfully submitted,

JOHN R. LAWSON,
JAMES DALRYMPLE,
Committee.

Denver, Colo., December 1, 1911.

His Excellency John F. Shafroth, Governor of Colorado.

Dear Sir: I, the undersigned, acted as the Colorado Fuel & Iron Company's representative on a committee appointed by yourself to investigate the difference between the aforesaid company and its employes at the Fremont mine.

In company with the other members of your committee, I visited the mine on November 20, 1911, and there explained thoroughly to the other members of the committee the system of weighing the coal and paying miners both before and after the change in the system of payment which was made October 1, 1911.

The majority report of your committee correctly states the

method of hoisting, dumping, and weighing the coal.

Speaking for the Colorado Fuel & Iron Company, I would say that our reason for making a change in the system of payment was that we have felt for several years that our miners at the Fremont mine were indifferent in their practices of mining in regard to the percentage of lump coal produced, though we have tried consistently for the past few years to educate them to better methods; but it seemed that so long as the mine-run basis of payment prevailed and the miner received as much for slack as he did for lump coal, he could not be induced to change his method, which resulted in an actual waste of coal.

The result has been that we have at all times had a considerable quantity of the smaller grades of coal which we found difficult to market and for which we were compelled to accept

prices that were unprofitable.

After much study and careful thought, it was decided that our only remedy was to install some system of payment by which the miner would receive a higher price for lump coal than for screenings, but it was not our intention to reduce the earnings of the miner, as we felt that any change of system of payment which resulted in reducing the miner's average earnings would bring dissatisfaction. It is, therefore, our contention that if the miner used ordinary care in the undermining of his coal and assisted us in keeping his working place in the proper shape, his earnings would be increased under our present system in the same proportion as the earnings of the company—by reason of an increase in the percentage of lump coal.

The majority report of your committee passes over this question of the efforts of the miner by the simple statement that "much might be said concerning the ability of the individual miner and the condition of the different places they were working in;" and later on in their report say that "it is because the miners do not know how to increase the percentage of lump, and not because they are willfully trying to keep the percentage of lump coal from increasing."

In this particular I must differ from the majority report and say that we do believe the miners know how to increase the percentage of lump, because we have foremen and others in the mine who are constantly instructing them in better methods, and the small percentage of men who are working under the directions of our foremen in their manner of mining and taking care of their places have increased their percentage of lump and have substan-

tially increased their earnings under the new system.

The majority report takes up the question of the selling price of the coal, and the price paid the miners, in a way that would lead the unthinking to the conclusion that the difference between these two prices was profit to the operator. The prices shown in their schedule are much higher than are received for a considerable part of the product, and I would call your attention to the fact that the price paid the miners is only a part of the cost of producing coal, and covers only the compensation for mining and loading the coal. Each miner is paid for brushing, which means the rock that has to be blasted down and removed in order to make head room in the working place. The coal is hauled first by mule, and then by rope, to the shaft bottom; is then hoisted, screened, picked, and loaded into railroad cars. The costs of supervision and ventilation are both considerable items, and the cost of timbers is a very large item in the total operating cost. In short, I will say that during the months of August, September, and October, mentioned in the majority report, the total cost of mining at Fremont was more than double the price paid the miners.

Our experience of this new system of payment at Rockvale mine, which works on the same seam and adjoins the Fremont mine, shows us that, as greater care is exercised by the miners and as their skill increases, their earnings increase proportionately; the new system, which has been in vogue at Rockvale since last April, showing the percentage of lump obtained as increasing from 66.32 per cent in April to 68.18 per cent in October.

We firmly believe that the Rockvale miners can go into the Fremont mine and produce as large a percentage of lump coal within a short time as they are now producing at Rockvale, and that, if the Fremont miners will show the same spirit in trying the new arrangement, it will not be long until they are as well satisfied as the Rockvale miners.

Respectfully submitted,

## CHAPTER V

## COMPOSITION OF THE POPULATION OF THE STATE

(Compiled from United States Census Report, 1910.)

The population of Colorado is 799,024. Compared with a population of 539,700 in 1900, this represents an increase in the last decade of 259,324, or 48 per cent. During the same period the total population of continental United States increased 21 per cent.

On account of the wide differences in characteristics among the different classes of the population, the statistics on each subject here presented are shown according to race, and for the whites according to nativity and parentage. Classification according to nativity and parentage is scarcely necessary for the other races, since nearly all negroes and Indians are native-born of native parentage, and nearly all Chinese and Japanese either foreign-born or of foreign parentage.

Marked differences often exist between urban and rural communities with respect to the composition and characteristics of the population. The two classes are distinguished in connection with several of the subjects. Urban population includes that of all incorporated places of 2,500 inhabitants or more, the remain-

der being classified as rural.

## COLOR AND NATIVITY

Of the total population of Colorado, 475,136, or 59.5 per cent, are native whites of native parentage; 181,428, or 22.7 per cent, are native whites of foreign or mixed parentage; 126,851, or 15.9 per cent, are foreign-born whites; and 11,453, or 1.4 per cent, are negroes.

Of the urban population, 56.9 per cent are native whites of native parentage; of the rural population, 62.1 per cent. corresponding proportions for native whites of foreign or mixed parentage are 24.7 and 20.7 per cent, respectively. The percentage of foreign-born whites is 15.7 in the urban population and 16 in the rural; the percentage of negroes is 2.3 in the urban and 0.5 in the rural. (See Table I.)

#### SEX

The percentage of males over females is 430,697 males to 368,327 females, or 116.9 males to 100 females. Among native whites the ratio is 109.7; among foreign-born whites, 160.1. In the urban population there are 104.4 males to 100 females, and in the rural, 131.5. (See Table II.)

## STATE OF BIRTH

Of the population born in the United States, 39.9 per cent were born in Colorado, and 65.1 per cent outside of the state, and of the native negroes, 81 per cent. (See Table III.)

## FOREIGN NATIONALITIES

Of the foreign-born white population, persons born in Germany represent 13.5 per cent; Italy, 11.3; Russia, 10.7; Austria, 10.3; England, 10.2; Sweden, 9.8; Canada, 7.5; Ireland, 6.9; Scotland, 3.4; Denmark, 2.2; Mexico, 2; all other countries, 12.4 per cent. Of the total white stock of foreign origin, which included persons born abroad and also natives having one or both parents born abroad, Germany contributed 18.1 per cent; England, 11.9; Ireland, 10.7; Sweden, 8.2; Canada, 7.8; Italy, 7.8; Russia, 7.3; Austria, 6.9; Scotland, 3.8; Denmark, 1.9 per cent.

#### ILLITERACY

There are 23,780 illiterates in the state, representing 3.7 per cent of the total population ten years of age and over, as compared with 4.2 per cent in 1900. The percentage of illiteracy is 11.3 among foreign-born whites, 8.6 among negroes, and 1.6 among native whites; these percentages being lower than in 1900 for each class except the foreign-born whites, whose percentage of illiteracy in 1900 was 8.1.

For all classes combined the proportion of illiterates is lower in urban than in rural communities, the percentages being 2.4 and 5.2, respectively.

For persons from ten to twenty years of age, inclusive, whose literacy depends largely upon present school facilities and school attendance, the percentage of illiteracy is 1.6. (See Table V.)

## DWELLINGS AND FAMILIES

The total number of dwellings in the state is 183,874, and the total number of families, 194,467; indicating that in very few cases does more than one family occupy a dwelling. The average number of persons per dwelling is 4.3, and the average number per family, 4.1.

TABLE I—COLOR, NATIVITY, AND PARENTAGE

·	Number		Per Cent of		Total	
Class of Population	1910	1900	1890	1910	1900	1890
The State						
Total population	799,024	539, 700	413, 249	100.0	100.0	100.0
White	783, 415	529, 046	404,534	98.0	98.0	97.9
Negro	11, 453	8,570	6, 215	1.4	1.6	1.5
Indian	1,482	1, 437	1,092	0.2	0.3	0.3
Chinese	373	599	1,398	*	0.1	0.3
Japanese	2,300	48	10	0.3	*	*
All other (Hindu)	1			*		

		Number	•	Per C	ent of	Total
Class of Population	1910	1900	1890	1910	1900	1890
Total native	669, 437	448, 545	329, 259	83.8	83.1	79.7
Total foreign-born	129,587	91, 155	83,990	16.2	16.9	20.3
Native white, total	656, 564	438, 571	322,028	82.2	81.3	77.9
Native parentage	475, 136	311, 335	242, 214	59.5	57.7	58.6
Foreign parentage	114, 747	79,692	52,370	14.4	14.8	12.7
Mixed parentage	66,681	47,544	27,444	8.3	8.8	6.6
Foreign-born white	126, 851	90, 475	82, 506	15.9	16.8	20.0
Urban Population						
Total			185, 905	100.0	100.0	100.0
White	,		179,686	97.4	97.1	96.7
Negro	9, 359	7,052	5,009	2.3	2.7	2.7
Indian, Chinese, Japanese, and						
all other	1,325	474	1,210	0.3	0.2	0.7
Native white, total			141,115	81.6	79.9	75.9
Native parentage	230, 544	141, 433	102,686	56.9	54.3	55.2
Foreign parentage		66.883	38,429 <	[ 15.6]	25.7	20.7
Mixed parentage	36, 692	) 00,000	00,1=0	(9.1)	20.1	
Foreign-born white	63, 698	44,809	38,571	15.7	17.2	20.7
Rural Population						
Total	394, 184	279,049	227, 344	100.0	100.0	100 0
White	389, 259	275, 921	224, 848	98.8	98.9	98.9
Negro	2,094	1,518	1,206	0.5	0.5	0.5
Ind., Chi., and Jap	2,831	1,610	1, 290	0.7	0.6	0.6
Native white, total	326, 106	230, 255	180, 913	82.7	82.5	79.6
Native parentage	244,592	169, 902	139, 528	62.1	60.9	61.4
Foreign parentage		\ a\ n=0	41,385 <	13.1	21.6	18.2
Mixed parentage	29, 989	) 00,000	11,000	7.6	21.0	10,2
Foreign-born white	63, 153	45,666	43, 935	16.0	16.4	19.3

<sup>\*</sup>Less than one-tenth of 1 per cent.

## TABLE II—SEX, FOR THE STATE AND PRINCIPAL CITIES

						Males
			Males			to
Class of Population			to 100			100 Fe-
The State	Male	Female	Females	Male	Female	males
		1910			1900	
Total population	430, 697	368, 327	116.9	295, 332	244, 368	120.9
White	421, 471	361, 944	116.4	289, 490	239, 556	120.8
Negro	5,867	5,586	105.0	4,473	4,097	109.2
Indian, Chinese, Jap	)-					
anese, and all other	3, 359	797	421.5	1,369	715	191.5
Native white, total	343, 397	313, 167	109.7	234,068	204, 503	114.5
Native parentage	250, 989	224, 147	112.0	168,158	143, 177	117.4
Foreign parentage	58,884	55, 863	105.4	41,788	37,904	110.2
Mixed parentage	33, 524	33, 157	101.1	24,122	23, 422	103.0
Foreign-born white	78,074	48,777	160.1	55,422	35,053	158.1
Urban population	206, 805	198,035	104.4	134, 267	126, 384	106.2
Rural population	223, 892	170, 292	131.5	161,065	117, 984	136.5
Cities of Over 25,000						
Colorado Springs	14,042	15,036	93.4	10, 388	10,697	97.1
Denver	107,395	105,986	101.3	66, 592	67, 267	99.0
Pueblo	24,855	19,540	127.2	15,350	12,807	119.9

## TABLE III—STATE OF BIRTH

			Per	Cent
	Nu	mber	of T	Total
Place of Birth	1910	1900	1910	1900
Total native	669, 437	448, 545	100.0	100.0
Colorado	233, 516	151,681	34.9	33.8
Other states	435, 921	296, 864	65.1	66.2
Missouri	50, 729	31,188	7.6	7.0
Illinois	49, 964	33,824	7.5	7.5
Iowa	44,276	24,960	6.6	5.6
Kansas	37, 356	20,864	5.6	4.7
Ohio	30,573	24,824	4.6	5.5
Nebraska	24, 643	11,681	3.7	2.6
New York	23,802	22, 320	3.6	5.0
Pennsylvania	23,596	19,734	3.5	4.4
Indiana	21,219	14,535	3.2	3.2
Wisconsin	12,085	8,874	1.8	2.0
New Mexico	11,992	10, 222	1.8	2.3

	ed.		Per Cent	
	Number		of Total	
Place of Birth	1910	1900	1910	1909
Other States—	_			
Michigan	11,049	8,094	1.7	1.8
Kentucky	10, 103	7, 146	1.5	1.6
Texas	6,679	3, 521	1.0	0.8
Tennessee	6, 267	4, 225	0.9	0.9
Minnesota	5, 785	2,742	0.9	0.6
All other	65,803	48,110	9.8	10.7

TABLE IV—AGE AND NATIVITY FOR CITIES OF 25,000 OR MORE

					Fo	reign-		
	7	Γotal	Nativ	e White	Born	n White	N	egro
Age Period	Male	Female	Male	Female	Male	Female	Male	Female
Colorado Springs.	14, 042	15,036	11,988	12,967	1,518	1,463 -	505	602
Under 5 years	1,108	1,017	1,069	972	4	3	33	42
Under 1 year	231	192	227	180	•	1	4	11
5 to 9 years	1, 144	1,163	1,083	1,101	14	20	47	42
10 to 14 years	1,120	1,207	1,044	1,126	24	28	<b>5</b> 1	53
15 to 19 years	1,193	1,306	1, 134	1,241	23	30	33	35
20 to 24 years	1, 281	1,554	1, 123	1,386	112	100	42	67
25 to 34 years	2,490	2,933	2,080	2, 437	306	346	98	149
35 to 44 years	2, 308	2,467	1,815	2,016	388	353	100	97
45 to 64 years	2, 727	2,702	2, 122	2, 165	515	444	82	92
65 and over	609	619	467	465	129	134	11	20
Age unknown	62	68	51	58	3	5	8	5
Denver	107, 395	105, 986	83, 064	85,066	20,895	18,046	2, 652	2,774
Under 5 years	8,442	8, 437	8,186	8, 155	99	101	147	166
Under 1 year	1,788	1,657	1,746	1,618	3	5	37	33
5 to 9 years	8, 104	8,072	7,622	7, 548	337	356	138	161
10 to 14 years	8, 159	8, 169	7, 553	7,594	435	398	164	169
15 to 19 years	8,821	9, 792	8,030	8,941	608	633	167	210
20 to 24 years	10,601	11, 157	8,661	9,350	1,586	1,479	241	315
25 to 34 years	21,613	21,475	15,889	16,634	4,772	4, 128	647	685
35 to 44 years	17, 446	17, 125	11,996	12, 324	4, 735	4, 249	593	541
45 to 64 years	19,870	17, 505	12, 467	11,786	6, 775	5, 275	484	436
65 and over	3, 698	4,005	2, 192	2,538	1,434	1,385	61	81
Age unknown	638	249	468	196	114	42	10	10

• •					. Fo	reign-		
	,	Total	Nativ	e White	Born	n White	Neg	ro
Age Period	Male	Female	Male	Female	Male	Female	Male F	emale
Pueblo	24,855	19,540	18,459	15,898	5, 418	2, 913	777	721
Under 5 years	2,260	2,061	2, 192	1,987	25	17	42	55
Under 1 year	476	383	464	377	1	1	11	5
5 to 9 years	1,946	1,976	1,826	1,828	69	87	51	60
10 to 14 years	1,639	1,689	1,489	1,538	103	96	47	55
15 to 19 years	1,744	1,848	1, 419	1,633	277	149	45	66
20 to 24 years	2,579	2,047	1,710	1,656	759	325	69	66
25 to 34 years	5, 715	3,716	3,850	2,769	1,605	781	$1\overline{6}8$	161
35 to 44 years	4,314	2,896	2,896	2,110	1,200	655	184	131
45 to 64 years	3,866	2,666	2,515	1,905	1, 175	649	146	112
65 and over	612	<b>5</b> 34	420	383	177	142	15	9
Age unknown	180	107	142	89	28	12	10	6

## TABLE V-ILLITERATE PERSONS AGED TEN YEARS AND OVER

	Both S	exes	Mal	le	Fema	le
Class of Population		Per		Per		Per
The State	Number	Cent	Number	Cenț	Number	Cent
Total illiterate, 1910	23, 780	3.7	12,680	3.6	11,100	3.8
Native white	8, 133	1.6	3, 502	1.3	4,631	1.9
Native parentage	7, 445	2.0	3, 142	1.6	4,303	2,5
Foreign or mixed parentag	ge. 688	0.5	360	0.5	328	0.5
Foreign-born white	13, 897	11.3	8,168	10.7	5,729	12.2
Negro	856	8.6	396	7.7	460	9.5
Total illiterate, 1900	17,779	4.2	8,774	3.7	9,005	4.8
Native white	8,692	2.7	3,898	2.2	4,794	3.2
Native parentage	7,920	3.3	3, 462	2.6	4, 458	4.1
Foreign or mixed parentag	ge. 772	0.9	436	. 1.0	336	0.8
Foreign-born white	7, 264	8.1	3,944	7.2	3, 320	9.6
Negro	962	13.0	458	11.8	504	14.4
Urban Population						
Total illiterate, 1910	8,011	2.4	4,039	2.3	3,972	2.4
Native white	1,421	0.5	686	0.5	735	0.6
Native parentage	1, 149	0.6	560	0.6	589	0.6
Foreign or mixed parentag	ge. 272	0.3	126	0.3	146	0.4
Foreign-born white	5,838	9.4	2,960	8.5	2,878	10.5
Negro	578	7.1	234	5.7	344	8.4

	Both S	exes	Mal	.e	Fema	.le
Class of Population		Per		Per		Per
The State	Number	Cent	Number	Cent	Number	Cent
Rural Population						
Total illiterate, 1910	15,769	5.2	8,641	4.9	7,128	5.7
Native white	6,712	2.8	2,816	2.1	3,896	3.7
Native parentage	6, 296	3.5	2,582	2.5	3,714	4.7
Foreign or mixed parenta	ge. 416	0.7	234	0.7	182	0.7
Foreign-born white	8,059	13.2	5,208	12.6	2,851	14.6
Negro	278	15.4	162	15.2	116	15.7

# TABLE VI-INDIAN, CHINESE, AND JAPANESE POPULATION FOR PRINCIPAL COUNTIES

In	dian	Chinese	Japanese
The state1,	482	373	2, 300
Adams	1	• •	20
Bent	19.	10	27
Boulder	4	4	45
Conejos	25	. 2	11
Delta	• •	1	22
Denver	71	227	585
Dolores	• •	• •	13
Eagle		• •	17
El Paso	7	24	32
Fremont	3	5	23
Garfield	• •		25
Huerfano	• •	3	58
Jefferson	• •	2	82
La Plata	288	10	61
Larimer		8	. 42
Las Animas		1	205
Logan	••	~ •	79
Mesa	218	2	38
Montezuma	453	• •	1
Montrose	• •		35
Morgan	• •	• •	68
Otero	6	3	100
Ouray	• •	8	4
Park		• •	8
Prowers	6		40
Pueblo	5	41	170

	Indian	Chinese	Japanese
Rio Grande	358	1	
Routt	• • • • •	• •	64
San Juan	•••	• •	6
San Miguel	1	4	2
Sedgwick	• • • • •	• •	56
Teller	1	• •	12
Weld	10	7	326
All other counties	6	10	23

All other counties have less than five of the stated races.

TABLE VII—MALE	s of	VOTING	AGE'	BY	COUNTIES,	1910
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State, 1910	
County       No.         Adams       3,224         Arapahoe       3,747         Archuleta       1,029         Baca       941         Bent       1,833         Boulder       9,326	County       No.         Garfield       3,732         Gilpin       1,503         Grand       792         Gunnison       2,474         Hinsdale       279         Huerfano       4,291
Chaffee       2,749         Cheyenne       1,338         Clear Creek       1,875         Conejos       3,258         Costilla       1,537         Custer       680	Jackson       430         Jefferson       4,728         Kiowa       1,011         Kit Carson       2,385         La Plata       3,662
Delta       4,159         Denver       71,990         Dolores       271         Douglas       1,151	Lake       4,072         Larimer       7,555         Las Animas       11,434         Lincoln       2,075         Logan       3,227
Eagle       1,247         El Paso       .14,053         Elbert       1,646         Fremont       6,355	Mesa       7,340         Mineral       474         Montezuma       1,568         Montrose       3,493         Morgan       3,057

County	No.	County	No.
Otero	6, 189	Saguache	1,372
Ouray	1,553	San Juan	1,725
		San Miguel	2,342
Park	1,113	Sedgwick	1,021
Phillips	948	Summit	926
Pitkin	1, 555		
Prowers	3, 021	Teller	5,372
Pueblo	19, 469		
		Washington	1,931
Rio Blanco	840	Weld	12, 637
Rio Grande	2, 160		
Routt	2,939	Yuma	2,543

NOTE.—While this table does not give the females of voting age, it is in excess of the number of votes cast for Governor in 1910, which was 225,605 total votes cast for the various candidates.

TABLE VIII-POPULATION, LAND AREA, URBAN AND RURAL TERRITORY BY COUNTIES

Subject	The State	Adams <sup>1</sup>	Adams <sup>1</sup> Arapahoe¹ Archuleta¹	rchuleta <sup>1</sup>	Baea1	Bent	Boulder	Chaffee <sup>1</sup> Cheyenne <sup>1</sup> Clear Creek	eyenne <sup>1</sup> Cle	ar Creek
Population								,	,	
Total population, 1910	799,024	28,892	<sup>2</sup> 10,263	3,302	2,516	5,043	30,330	7,622	3,687	2,001
1900	539,700	(2)	2153,017	2,117	759	3,049	21,544	7,085	501	7,082
1890	3,113,249		132,135	828	1,479	1,813	14,082	6,612	534	7,184
1880	194,327		38,644	•		1,654	9,723	6,512	•	7,823
1870	39,864	•	6,829		•	592	1,939		•	1,596
Increase, 1900-1910	259,824	28,892	-1.42,75-1	1,185	1,757	1,991	8,786	537	3,186	-2,081
Per cent of increase	48.0	(3)	2-93.3	56.0	231.5	65.4	40.8	9.7	635.9	-29.4
Increase, 1890-1900	126,451	•	20,882	1,191	-720	1,736	7,462	473	£	-102
Per cent of increase	30.0		15.8	144.2	-18.7	132.2	53.0	7.3	6.2	-1.4
Land area (square miles)	103,658	1,262	8.12	1,220	2,552	1,524	76.1	1,083	1,777	390
Population per square mile, 1910	1-	7.0	12.2	61	1.0	33.33	39.7	7.0	2.1	12.8
Rural population per square mile, 1910	80 80	7.0	8.6	2.2	1.0	85 85	21.6	3.0	61 	12.8
Urban and Rurae Territory										
Urban, 1910—Places of 2,500 or more in 1910	404,840	(3)	22,983				1,,795	4,425		•
Same places in 1900	269,662	(5)	(2)			•	8,351	3,722		
Per cent of increase, 1900-1910	50.1	(2)	(5)	•	:	•	65.2	18.9	•	
Rural, 1910—Remainder of county in 1910	394,184	28,892	4 27,280	3,307	2,516	5,043	16,535	3,197	3,687	5,001
Same territory in 1900	270,038	24,134	36,179	2,117	759	3,049	13,193	3,363	501	7,082
Per cent of increase, 1900-1910	46.0	2115.1	217.8	56.0	231.5	65.4	25.3	1.9	635.9	-29.4

TABLE VIII-POPULATION, LAND AREA, URBAN AND RURAL TERRITORY BY COUNTIES-Continued

Subject	The State	Adams <sup>1</sup> /	Adams¹ Árapahoe¹ Archuleta¹	$rchuleta^1$	Bacat	$\mathrm{Bent}^1$	Boulder	Chaffee¹ Cheyenne¹ Clear Creek	eyenne¹ Cle	ar Creek
POPULATION										
Urban, 1900—Places of 2,500 or more in 1900	260,651	(2)	2133,859	:	•	•	6,150	3,722	•	2,505
Rural, 1900—Remainder of county in 1900	279,049	(2)	219,158	2,117	759	3,049	15,394	3,363	501	4,580
Per cent in places of 2,500 or more, 1910	50.7	(3)	229.1	•		•	45.5	58.1	•	•
Per cent in places of 2,500 or more, 1900	48.3	(3)	287.5	•		•	28.5	52.5	•	35 55 55
DWELLINGS AND FAMILIES							l a	1 0	1 00 1	1 9 49
Dwellings, number	183,874	2,091	2,545	815	899	1,064	7,355	1,954	1,260	1,040
Families, number	194,467	2,102	2,605	826	829	1,083	7,577	2,021	1,235	1,379

1 For changes in boundaries, etc., see notes at the end of Census Reports.

<sup>2</sup> For combined figures for Adams, Arapahoe, Denver, Washington, and Yuma Counties, see Note 1.

3 State total includes population (1,051) of Indian reservations specially enumerated in 1890, not distributed by counties.

Subject	Conejos <sup>1</sup>	$Costilla^{1}$	Custer <sup>1</sup>	$Delta^1$	Denver <sup>1</sup>	Dolores <sup>1</sup>	Douglas <sup>1</sup>	Eagle <sup>1</sup>	El Paso <sup>1</sup>	Elber
Population										
Total population, 1910	11,285	5,498	1,947	13,688	2213,381	642	3,192	2,985	43,321	5,33
1000	8,794	4,632	2,937	5,487	(2)	1,134	3,120	3,008	31,602	3,10
	7.193	3,491	2,970	2,534	•	1,498	3,006	3,725	21,239	1,86
1880	5,605	2,879	8,080	•	•	•	2,486	•	7,949	1,70
1870	2,504	1,779	•			:	1,388	•	987	:

101 356 708

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TABLE VIII-POPULATION, LAND AREA, URBAN AND RURAL TERRITORY BY COUNTIES-Continued

2,899 701 1,243 2,198 313.6 —542 —43.6 1,798 1.6	Jackson Jeffersou Jeffersou Jackson Jeffersou	21,013 (2) (2) (2) (3) (4) (5) (6) (6) (6) (6)	13,320 8,395 6,882 4,124 2,250 4,925 58.7 1,513 22.0 8.9 8.9	1,862     5,897     646       741     5,331     1,609       604     4,359     862       417     8,235     1,487       1,121     566     -963       151.3     10.6     -59.9       137     972     747       22.7     22.3     86.7       1,866     3,179     971       1.0     1.9     0.7       1.0     1.9     0.7       1.0     0.7	5,897 5,331 4,359 8,235 566 10.6 972 22.3 3,179 1.9	1,862 741 604 417 1,121 151.3 137 22.7 22.7 1.866 1.0 1.0	4,131 6,690 5,867 6,489 -38.3 823 14.0 132 31.3		4,478 4,478 4,309 73.8 1,357 30.3 3.3 3.3	POPULATION  Total population, 1910
•		(ع)								7.503
		107				:			:	1,8/4
1.6	17.0	9.0	8.9	0.7	1.9	1.0	31.3	~	80	
1.6	17.0	9.0	8.9	0.7	1.9	1.0	31.3		3.3	
1,798	838	1,632	1,500	971	3,179	1,866	132		3,107	
-43.6	10.1	:	22.0	86.7	22.3	22.7	14.0		30.3	
542	856	:	1,513	747	972	137	823		1,357	
313.6	52.9	(2)	58.7	59.9	10.6	151.3	-38.3		73.8	
2,198	4,925	21,013	4,925	963	566	1,121	-2,559		4,309	
:	2,390		2,250				5,490		•	
•	6,804		4,124	1,487	8,235	417	6,489		•	
1,243	8,450	:	6,882	862	4,359	604	5,867		4,478	
701	9,306	(2)	8,395	1,609	5,331	741	069'9		5,835	
2,899	14,231	21,013	13,320	646	5,897	1,862	4,131		10,144	
							,			
Kiowa1	efferson 1	Jackson 1 J	nacrano				,			

:	9,306 701	•		i	3,285 933	3,321 942		Monte-	$ral^{1}$ $zuma^{1}$	X 1	1,239 5,029	1,913 3,058	1,529			-674 1,971	-35.2 64.5			866 2,051	1.4 2.5	
•	9;:			-	283 3,5	286 3,5			a <sup>1</sup> Mineral <sup>1</sup>				٠				ı				7.0	
. (2)	(2)	(2)							1 Mesa <sup>1</sup>		22,197	9,267	4,260			7 12,930		5,007	117.5	3,163		
•	8,395				2,771	2,901			Logan <sup>1</sup>		9,549	3,292	3,070	:	•	6,257	190.1	. 222	7.5	1,822	5.3	
:	1,609	•			197	197			Lincoln <sup>1</sup>		5,917	926	689		•	4,991	539.0	237	34.4	2,570	6.5 6.1	
:	5,331	•			1,524	1,533		Las	$\Lambda$ mimas <sup>1</sup>		33,643	21,842	17,208	8,903	4,276	11,801	51.0	4,634	26.9	4,809	7.0	
•	7.41				961	505			$Larimer^1$		225,270	212,168	9,712	4,892	838	213,102	2107.7	2,456	25.3	2,629	9.6	
3.111	3,576		46.5		1,098	1,134	^i		Lake <sup>1</sup>		10,600	18,054	14,663	23,563	522	1.154	-11.3	3,391	23.1	371	28.6	
	5,835	•	•		2,415	2,475	s, see Note		La Plata <sup>1</sup>		10,812	7,016	5,500	1,110	•	3,796	51.1	11,021	318.5	1,851	5.8	
7,503	8,133	43.3	48.0		4,146	4,293	er Counties		Kit Carson <sup>1</sup> La Plata <sup>1</sup>		7,483	1,580	2,472			. 5,903	373.6	892	36.1	2,159	3.5	
in 1900	1900		000			:	on and Larim		K													
Urban, 1900—Places of 2,500 or more in 1900	Rural, 1900—Remainder of county in 1900	Per cent in places of 2,500 or more, 1910	Per cent in places of 2,500 or more, 1900	DWELLINGS AND FAMILIES	Dwellings, number	Families, number	<sup>2</sup> For combined figures for Jackson and Larimer Counties, see Note 2.		Subject	POPULATION	Total population, 1919	1900	1890	1880	1870	Increase, 1900-1910,	Per cent of increase	Increase, 1890-1900	Per cent of increase	Land area (square miles)	Population per square mile, 1910	

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Monte-	zuma¹			:			5,029	3,058	64.5	:	3,058				1,222	1,246		Rio	Blanco1		2,332	1,690	1,200
	Mineral			•		:	1,239	1,913	-35.2		1,913	:	:		412	412			Pueblo		52,223	34,448	31,491
	Mesa <sup>1</sup>			7,754	3,503	121.4	14,443	5,764	150.6	3,503	5,764	34.9	37.8		5,232	5,384			Prowers <sup>1</sup>		9,520	3,766	1,969
	Logan 1			3,044	866	205.0	6,505	2,294	183.6	:	3,292	31.9	•		2,280	2,419			$Pitkin^{1}$		4,566	7,020	8,929
	Lincoln <sup>1</sup>				•	:	5,917	956	539.0	•	956	:			1,571	1,588			$Phillips^1$		3,179	1,583	2,642
I.as	Animası			10,204	5,345	90.9	23,439	16,497	42.1	5,345	16,497	30.3	-24.5		7,285	7,629			$Park^1$		2,492	2,998	3,548
	Lake <sup>1</sup> - Larimer <sup>1</sup>			211,861	24,588	$^{2158.5}$	213,409	$^{2}6,678$	2100.8	23,053	29,115	246.9	225.1		5,842	5,938	3 See Note 3.		$Ouray^1$		1,514	4,731	6,510
	Lake 1			7,508	12,455	-39.7	3,092	5,599	-14.8	12,455	5,599	8.07	0.69		2,852	2,923			$Otero^1$		20,201	11,522	4,192 >
	a Plata <sup>1</sup>			4,686	3,347	40.0	6,126	3,669	0.79	3,317	3,699	43.3	47.3		2,448	2,510	, see Note 2		$Morgan^1$		9,577	3,268	1,601
	Kit Carson <sup>1</sup> La Plata <sup>1</sup>			: : :	•		7,483	1,580	373.6	•	1,580	•	•		2,303	2,315	ner Counties		Montrose <sup>1</sup>		10,291	4,535	3,980
	Subject	Population	URBAN AND RURAL TERRITORY	Urban, 1910—Places of 2,500 or more in 1910	Same places in 1900	Per cent of increase, 1900-1910	Rural, 1910—Remainder of county in 1910	Same territory in 1900	Per cent of increase, 1900-1910	Urban, 1900—Places of 2,500 or more in 1900	Rural, 1900—Remainder of county in 1900	Per cent in places of 2,500 or more, 1910	Per cent in places of 2,500 or more, 1900	Dwellings and Families	Dwellings, number	Families, number	<sup>2</sup> For combined figures for Jackson and Larimer Counties, see Note 2.		Subject	POPULATION	Total population, 1910	1900	1890

				DURE	×χ (',	Or	144	abe	)1t	SI	7.1.1	011	CN						,	.00
	645	38.0	40.8	3,223	0.7	0.7			•	•	2,332	1,690	38.0		1,690		-		299	610
7,617	17,775	51.6	9.4	6 6	21.5	 		44,395	28,157	57.7	7,828	6,291	4.42	28,157	6,291	85.0	81.7		10,414	11,009
	5,754	152.8	91.3	1,630	s.c	4.0		2,977	286	201.6	6,543	2,779	135.4		3,766	.15 8.1.3			2,928	2,281
	1.51.6	—35.0 1,909	12	1,019	4.	÷.					1,566	7,020	-35.0	3,303	3,717		17.1		1,170	1.172
	1,596	100.S -1,059	10.1	688	4.6	4.6				•	3,179	1,583	100.8	•	1,583				757	178
3,970	206	-16.9	15.5	51 51 61	1.1	1.1					2,492	2,998	-16.9		2,998				63.1	058
2,669	1.0.1	-25.7	5.72	519	6.8	6.8		-		:	3,514	4,731	7.52		4,731	÷			870	006
:	8,679	75.3	17.4.9	2,067	9.8	6.2		7,381	4,531	63.0	12,817	6,991	83.3	2,513	600'6	36.6	21.8		4,463	4,586
	6,300	1.93.1	101.1	1,286	1-	5.3		2,800	63.1	341.6	6,777	2,634	157.3		3.268	29.3			2,2.18	2,316
	5,756	126.9 555	13.9	2,261	4.5	3.1		3,254	1,217	167.4	7,037	3,318	112.1		1,535	31.6			2,440	2,471
1880	Increase, 1900-1910	Per cent of increase	Per cent of increase	Land area (square miles)	Population per square mile, 1910	Rural population per square mile, 1910	URBAN AND RURAL TERRITORY	Urban, 1910—Places of 2,500 or more in 1910	Same places in 1900	Per cent of increase, 1900-1910	Rural, 1910—Remainder of county in 1910	Same territory in 1900	Per cent of increase, 1900-1910	Urban, 1900—Places of 2,500 or more in 1900	Rural, 1900—Remainder of county in 1900	Per cent in places of 2,500 or more, 1910.	Per cent in places of 2,500 or more, 1900	DWELLINGS AND FAMILIES	Dwellings, number	Families, number

TABLE VIII-POPULATION, LAND AREA, URBAN AND RURAL TERRITORY BY COUNTIES-Continued

Rural, 1910-Remainder of county in 1910	4,019	7,561	4,160	3,063	4,700	3,061	2,003	4,983	26,002	30,998	28,499
Same territory in 1900	3,524	3,661	3,853	2,342	5,379	971	2,7.44	13,869	$^{2}1,576$	13,785	23,626
Per cent of increase, 1900-1910	1.4.0	106.5	8.0	30.8	-12.6	215.2	0.72—	-64.1	2280.8	124.9	2134.4
Urban, 1900—Places of 2,500 or more in 1900			:	•				15,133	(2)	3,023	(2)
Rural, 1900—Remainder of county in 1900	080,1	3,661	3,853	2,342	5,379	971	2,744	13,869	$^{21,2.41}$	13,785	$^{21,729}$
Per cent in places of 2,500 or more, 1910	38.8		•	•	•	•	•	65.3	(2)	20.9	(2)
Per cent in places of 2,500 or more, 1900		:	:	•				52.2	(2)	18.0	(2)
DWELLINGS AND FAMILIES											1
Dwellings, number	1,410	1,978	1,079	675	1,06.1	750	209	4,099	1,711	9,032	2,261
Families, number	1,472	2,01.4	1,103	929	1,065	758	209	4,206	1,729	9,284	2,273

<sup>2</sup> See Note 1.

#### NOTES REGARDING CHANGES OF BOUNDARIES, ETC.

#### COUNTIES

Adams.—Organized from part of Arapahoe in 1902 and part of Denver annexed in 1909; parts annexed to Washington and Yuma in 1903. (See also Note 1.)

Arapahoe.—Parts taken to form Adams and Denver in 1902 and parts annexed to Washington and Yuma in 1903. (See also Note 1.)

Archuleta.—Organized from part of Conejos in 1885.

Baca.-Organized from part of Las Animas in 1889.

Bent.—Organized from part of Greenwood in 1874; parts taken to form Kiowa, Otero, Prowers, and parts of Cheyenne and Lincoln in 1889.

Chaffee.—Organized from part of Lake in 1879; part annexed to Fremont between 1890 and 1900.

Cheyenne.—Organized from parts of Bent and Elbert in 1889.

Conejos.—Parts taken to form parts of Hinsdale, La Plata, and Rio Grande in 1874 and Archuleta in 1885.

Costilla.—Parts taken to form parts of Hinsdale, La Plata, and Rio Grande in 1874.

Custer.—Organized from part of Fremont in 1877.

Delta.—Organized from part of Gunnison in 1883.

Denver.—Organized from part of Arapahoe in 1902; part annexed to Adams in 1909. (See also Note 1.)

Dolores.—Organized from part of Ouray in 1881.

Douglas.—Part taken to form part of Elbert in 1874.

Eagle.—Organized from part of Summit in 1883.

El Paso.—Part taken to form part of Teller in 1899.

Elbert.—Organized from parts of Douglas and Greenwood in 1874; parts taken to form Kit Carson and parts of Cheyenne and Lincoln in 1889.

Fremont.—Parts taken to form Custer in 1877 and part of Teller in 1899; part of Chaffee annexed between 1890 and 1900.

Garfield.—Organized from part of Summit in 1883; part taken to form Rio Blanco in 1889.

Grand.—Organized from part of Summit in 1874; part taken to form Routt in 1877.

Gunnison.—Organized from part of Lake in 1877; parts taken to form Pitkin in 1881 and Delta, Mesa, and Montrose in 1883.

Hinsdale.—Organized from parts of Conejos, Costilla, and Lake in 1874; part taken to form part of Mineral in 1893.

Jackson.—Organized from part of Larimer in 1909. (See also Note 2.)

Jefferson.—Part annexed to Park in 1908.

Kiowa.—Organized from part of Bent in 1889.

Kit Carson.-Organized from part of Elbert in 1889.

La Plata.—Organized from parts of Conejos, Costilla, and Lake in 1874; parts taken to form San Juan in 1876 and Montezuma in 1889.

Lake.—Parts taken to form Gunnison in 1877, Chaffee in 1879, and parts of Hinsdale, La Plata, and Rio Grande in 1874.

Larimer.—Part taken to form Jackson in 1909. (See also Note 2.)

Las Animas.—Part taken to form Baca in 1889.

Lincoln.—Organized from parts of Bent and Elbert in 1889.

Logan.—Organized from part of Weld in 1887; parts taken to form Phillips and Sedgwick in 1889.

Mesa.—Organized from part of Gunnison in 1883.

Mineral.—Organized from parts of Hinsdale, Rio Grande, and Saguache in 1893.

Montezuma.—Organized from part of La Plata in 1889.

Montrose.—Organized from part of Gunnison in 1883.

Morgan.—Organized from part of Weld in 1889.

Otero.—Organized from part of Bent in 1889.

Ouray.—Organized from part of San Juan in 1877; parts taken to form Dolores in 1881 and San Miguel in 1883.

Park.—Part of Jefferson annexed in 1908.

Phillips.—Organized from part of Logan in 1889.

Pitkin.—Organized from part of Gunnison in 1881.

Prowers.—Organized from part of Bent in 1889.

Rio Blanco.—Organized from part of Garfield in 1889.

Rio Grande.—Organized from parts of Conejos, Costilla, and Lake in 1874; part taken to form part of Mineral in 1893.

Routt.—Organized from part of Grand in 1877.

Saguache.—Part taken to form part of Mineral in 1893.

San Juan.—Organized from part of La Plata in 1876; part taken to form Ouray in 1877.

San Miguel.—Organized from part of Ouray in 1883.

Sedgwick.—Organized from part of Logan in 1889.

Summit.—Parts taken to form Grand in 1874 and Eagle and Garfield in 1883.

Teller.—Organized from parts of El Paso and Fremont in 1899.

Washington.—Organized from part of Weld in 1887; part taken to form Yuma in 1889; parts of Adams and Arapahoe annexed in 1903. (See also Note 1.)

Weld.—Parts taken to form Logan and Washington in 1887 and Morgan in 1889.

Yuma.—Organized from part of Washington in 1889; parts of Adams and Arapahoe annexed in 1903. (See also Note 1.)

Note 1.—Adams, Arapahoe, Denver, Washington, and Yuma Counties combined.—Total population: 1910, 247,037; 1900, 155,987; increase, 1900-1910, 91,050; per cent of increase, 58.4. Urban population—1910, 216,364; same places in 1900, 140,472; per cent of increase, 54. Rural population—1910, 30,673; same territory in 1900, 15,515; per cent of increase, 97.7. Urban population—1900, 133,859; rural population—1900, 22,128. Per cent in places of 2,500 or more in 1910, 87.6. Per cent in places of 2,500 or more in 1900, 85.8.

Note 2.—Jackson and Larimer Counties combined.—Total population: 1910, 26,283; 1900, 12,168; increase, 1900-1910, 14,115; per cent of increase, 116. Urban population—1910, 11,861; same places in 1900, 4,588; per cent of increase, 158.5. Rural population—1910, 14,422; same territory in 1900, 7,580; per cent of increase, 90.2. Urban population—1900, 3,053; rural population—1900, 9,115. Per cent in places of 2,500 or more in 1910, 45.1. Per cent in places of 2,500 or more in 1900, 25.1.

Note 3.—In computing this increase the population of Indian reservations in 1900 has been deducted from the total population of the county in order to make that total comparable with the total for 1890 which does not include the population of Indian reservations. The population thus deducted in the several counties was as follows: Archuleta, 100; La Plata, 486; Montezuma, 559.

#### CITIES

Boulder.—Part of precinct 31 annexed in 1905 and parts of precincts 4, 22, 29, 30, and 31 annexed in 1908.

Colorado Springs.—Parts of precinct 22 annexed in 1901 and 1910, parts of precinct 50 annexed in 1902 and 1903, part of precinct 5 annexed in 1905, and parts of precinct 21 annexed in 1906 and 1910.

Denver.—Middle, North, and South Globeville precincts and part of Retreat Park precinct (comprising Globeville town), West Elyria precinct and part of East Elyria precinct (comprising Elyria town), part of Argo precinct (comprising Argo town), part of Berkeley precinct (comprising Berkeley town), part of Montclair precinct (comprising Montclair town), part of Valverde precinct (comprising Valverde town), and Paper Mills precinct, all in Arapahoe County, annexed in 1902. Highlands city annexed between 1890 and 1900.

Englewood.—Incorporated in 1909.

Pueblo.—Part of old precinct 5 annexed in 1904. Bessemer city annexed between 1890 and 1900.

# CHAPTER VI

## AGRICULTURAL STATISTICS

## NUMBER, AREA, AND VALUE OF FARMS

	1910	1900	Incr	ease
,	(April 15)	(June 1)	Amount	Per Cent.
Population	799,024	539,700	259, 324	48.0
Number of all farms	46,170	24,700	21,470	86.9
Approximate land area of the state	66, 341, 120	66, 341, 120		
Land in farms—acres	13, 532, 113	9, 474, 588	4,057,525	42.8
Improved land in farms-acres	4, 302, 101	2, 273, 968	2, 028, 133	89.2
Average acres per farm	293.1	383.6	· —90.	5 —23.6
Value of farm property—				
Total	\$491, 471, 806	\$161,045,101	\$330, 426, 705	205.2
Land	362, 822, 205	90, 341, 523	272, 480, 682	301.6
Buildings	45,696,656	16,002,512	29, 694, 144	185.6
Implements and machinery	12, 791, 601	4, 746, 755	8,044,846	169.5
Domestic animals, poultry and				
bees	70, 161, 344	49, 954, 311	20, 207, 033	
Average value of all property per				-
farm	10,645	6, 520	4, 125	63.3
Average value of land per acre	26.81	9.54	17.	27 181.0

Population, Number of Farms, and Farm Acreage, 1870 to 1910

In 1910 the population of the state was more than twenty times as great as in 1870. The largest increases were during the last decade and that between 1880 and 1890.

There are 46,170 farms in Colorado, or twenty-six and one-half times as many as in 1870. During the period from 1870 to 1910 the number of farms increased on the average over 1,100 per year. This increase was most rapid during the last decade, when it averaged 2,147 per year. The increase was general throughout the state.

The table following presents, for the state as a whole for each census from 1870 to 1910, inclusive, a statement of the total population, the number of farms, and the acreage of farm land and of improved land in farms. It also gives the percentage of

the land area in farms, the percentage of farm land improved, and the percentage of increase during each decade in the number of farms and in the land in farms.

								Per
		FA	RMS	LAND	S IN FA	RMS		Cent of
		ь		All L	and	Im-	Per Cent	Farm
			Per Cent	t	Per Cent	proved	of Land	Land
Census	3		of		of	Land	Area in	Im-
Year	Population	Number	Increase	Acres	Increase	(Acres)	Farms	proved
1910	799,024	46, 170	86.9	13, 532, 113	42.8	4, 302, 101	20.4	31.8
1900	539, 700	24,700	50.7	9, 474, 588	106.0	2, 273, 968	14.3	24.0
1890	413, 249	16,389	263.7	4,598,941	294.6	1,823,520	6.9	39.7
1880	194, 327	4,506	159.3	$1, 1\overline{6}5, 373$	263.8	616, 169	1.8	52.9
1870	39,864	1,738		320, 346		95, 594	0.5	29.8

No data prior to 1870. Organized as a territory in 1861.

The land area of Colorado is approximately 66,341,120 acres. Of this area, 13,532,113 acres, or 20.4 per cent, are included in farms. Of the farm acreage, 4,302,101 acres, or 31.8 per cent, are reported as improved land, representing 6.5 per cent of the total land area of the state. The total acreage of farm land increased 42.8 per cent during the last decade. The reported acreage of improved land shows a much greater relative increase from 1900 to 1910 than does the total acreage in farms, making the percentage of farm land which is improved considerably higher in 1910 than 1900.

The table given above shows also the very rapid and continuous increases from the earliest report, in 1870, in both total farm acreage and acreage of improved land. The proportion of the total land area of the state which was occupied by farms rose during this period from one-half of 1 per cent to 20.4 per cent. The proportion of farm land reported as improved has fluctuated greatly, doubtless due largely to the inclusion of large areas of range land and the variations in interpretation of the terms "improved land" and "unimproved land."

# VALUES OF FARM PROPERTY, 1870 TO 1910

The agricultural changes in Colorado since 1870, as reflected in the values of the several classes of farm property, are shown in the table which follows:

FARM PROPERTY

					Implements and	nts and	Domestic Animals,	nimals,
	To	Total	Land and Buildings	Buildings	Macl	Machinery	Poultry and Bees	nd Bees
Census		Per Cent		Per Cent		Per Cent		Per Cent
Year	Value	of Increase	Value	of Increase	Value	of Increase	Value	of Increase
1910	.\$491, 471, 806	205.2	\$108,518,861	284.2	\$12, 791, 601	169.5	\$70,161,344	40.5
1900.	161,045,101	57.1	105, 344, 035	25.1	4, 746, 755	63.9	49, 954, 311	68.3
1890*117, 439, 558	*117, 439, 558	179.7	85, 035, 180	238.7	2, 728, 850	199.8	*29, 675, 528	85.8
1880	*41,991,650	703.9	25, 100, 223	827.0	910,085	317.3	*15, 972, 342	595.4
1870 ‡	5, 223, 563	•	2, 708, 598	•	218,083	•	2, 296, 882	:

\*Includes estimated value of range animals.

<sup>†</sup>Computed gold values, being 80 per cent of the currency values reported. No data prior to 1870. Organized as a territory in 1861.

The total wealth in the form of farm property is \$491,472,000, of which 83.1 per cent is represented by land and buildings, 2.6 per cent by implements and machinery, and 14.3 per cent by live stock. The total value of farm property increased from 1900 to 1910 by \$330,427,000; or, in other words, it more than trebled. The absolute gain during the decade from 1900 to 1910 was over seven times, and the percentage gain nearly six times, as great as during the decade immediately preceding. Moreover, the absolute gain in the last decade was over twice as great as that of the preceding thirty years. The percentage increase from 1880 to 1890 was much less than from 1870 to 1880, and from 1890 to 1900 it again fell off greatly.

# AVERAGE ACREAGE AND VALUES PER FARM, 1870 TO 1910

The changes which have taken place during the past forty years in the average acreage of Colorado farms and in the average values of the various classes of farm property, as well as in the average value per acre of land and buildings, are shown in the following table:

		AV	ERAGE V.	ALUE PER	FARM*	Average
					Domestic	Value of
	Average		Land	Imple-	Animals,	Land and
Census	Acres Per	All Farm	and	ments and	Poultry	Building
Year	Farm	Property	Building	Machinery	and Bees	Per Acre
1910	293.1	\$10,645	\$8,848	\$277	\$1,520	\$30.19
1900	383.6	6,510	4, 305	192	2,022	11.22
1890	280.6	<del>†</del> 7, 166	5, 189	167	†1,811	18.49
1880	258.6	†9,319	5, 572	202	†3,545	21.55
1870‡	184.3	3,006	1,558	125	• 1,322	8.46

<sup>\*</sup>Averages are based on "all farms" in state.

One of the striking characteristics of the agricultural conditions in Colorado is the presence of great areas of semi-arid land which has thus far been utilized, if at all, for grazing purposes. Upon this land are many very large farms—or ranches, as they are called—frequently exceeding 100,000 acres in extent, and counting these as farms has increased materially the average number of acres per farm for the state. In fact, one ranch of 451,000 acres, reported in Costilla County in 1900, but not re-

<sup>†</sup>Includes estimated value of range animals.

Computed gold values, being 80 per cent of the currency values reported. No data prior to 1870. Organized as a territory in 1861.

ported in 1910, added over eighteen acres to the average size in 1900 of all farms for the state. Farms of 1,000 acres and over increased in number during the past decade from 1,237 to 1,577, yet the acreage of such farms decreased from 5,025,660 acres in 1900 to 4,880,823 acres in 1910. The farms other than those used almost exclusively for grazing purposes are not, on an average, usually large, and the relative increase in the number of these farms has decreased the average size of all farms of the state since 1900 by 90.5 acres. Since 1870 the average size of the Colorado farm has varied greatly, increasing steadily from 184.3 acres in 1870 to 383.6 acres in 1900, and then decreasing in 1910 to 293.1 acres; the result is a net increase of 108.8 acres since 1870. In 1900 the average size of a Colorado farm was over twice as great as in 1870, the increase averaging almost seven acres a year for the thirty years. In 1910, however, it was only about one and one-half times as large as in 1870.

The average value of a Colorado farm, including equipment, has advanced during the last decade from \$6,520 to more than \$10,600, of which over \$8,800 represents the value of land and buildings, over \$1,500 the value of live stock, and nearly \$300 the value of implements and machinery. The average value of land and buildings is now \$30.19, or somewhat less than three times as much as ten years ago.

Although the average value per farm of live stock was over ten times as great as that of implements and machinery in 1870, it is now less than six times as great. During the forty years implements and machinery have more than doubled in value, while live stock has increased only 15 per cent.

# FARM TENURE, 1880 to 1910

The following table shows the distinction of the farms of the state according to character to tenure at each census since 1880:

Number of all farms46,170	24,700	16, 389	4,506
Farms operated by owners37,780	19, 119	14, 546	3,922
Farms consisting of owned land only32,474	15,871	*	2 4
Farms consisting of owned and hired 4,519	2,368	*	*
Farms operated by managers	880	*	aje
Farms operated by tenants 8,390	5,581	1,843	584
Share tenants			
Share cash tenants† 233	3, 351	1, 258	419
Cash tenants 2,211			
Tenure not specified‡	2, 230	585	165

Per cent of farms operated by owners				
and managers	81.8	77.4	88.8	87.0
Tenants	18.2	22.6	11.2	13.0
Share and share-cash	11.1	13.6	7.7	9.3
Cash and non-specified	7.0	9.0	3.6	3.7

<sup>\*</sup>Not reported separately.

It is significant that, while there was an increase of 21,470 in the total number of farms during the last decade, an increase of 18,661 was reported in the number of farms operated by owners and managers, and of only 2,809 in the number operated by tenants. As is usual in newly settled sections of a country, the proportion of farms in Colorado operated by tenants has thus far been small. The great majority of the farms of the state have been acquired by their owners or operators from the government, or private corporations, in the form of homesteads, Carey Act entries, desert-land entries, or irrigated farms. Most of these have been acquired at a small price, or on long time and other favorable terms, making ownership possible to the man of small means. This fact doubtless accounts in the main for the smaller proportion of farms operated by tenants than is found in most of the older states.

In 1880 about thirteen out of every one hundred farms were operated by tenants; in 1890, about eleven; in 1900, about twenty-three; and in 1910, about eighteen. The present proportion is less than half as high as that for the United States as a whole.

Throughout the thirty years the number of both cash and share tenants has been increasing rapidly, and the farms now reported as rented for cash, including "non-specified," represent 7 per cent of the total, and those reported as rented for a share of the products, including "share-cash," 11.1 per cent. In 1880 there were somewhat over two and a half times as many share and share-cash tenants as there were cash and non-specified tenants; in 1910, however, there were only slightly over one and one-half times as many.

The following table shows the total and improved acreage, and the value of land and buildings, for farms operated by owners (including part owners), managers, and tenants, respectively:

<sup>†</sup>Share-cash tenants were doubtless largely included with share tenants in 1900, 1890 and 1880.

Prior to 1910 non-specified tenants were included with cash tenants.

	All La	and	Improve	ed Land	Val	ue of
Farms	in Farms	(Acres)	in Farms	s (Acres)	Land and	Buildings
Operated By—	1910	1900	1910	1900	1910	1900
Total	13, 532, 113	9, 474, 588	4, 302, 101	2, 273, 968	\$408,518,861	\$106, 344, 035
Owners	10, 134, 797	6, 156, 841	2, 907, 897	1,486,705	270, 209, 463	68, 113, 548
Managers	1,140,446	1, 787, 515	310, 402	207, 275	29, 343, 653	13, 167, 920
Tenants	2, 256, 870	1,530,232	1,083,802	579, 988	108, 965, 745	25, 062, 567

The following table shows the percent distribution by tenure groups of the items in the preceding table, and also the number of farms:

Farms	N	Sumber of	All	Land	Impro	ved Land	Value o	f Land
Operated By-		Farms	in I	Farms	in l	Farms	and Bu	ildings
•	1910	1900	1910	1900	1910	1900	1910	1900
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Owners	80.1	73.8	74.9	65.0	67.6	65.4	66.1	64.1
Managers	1.7	3.6	8.4:	18.9	7.2	9.1	7.2	12.4
Tenants	18.2	22.6	16.7	16.2	25.2	25.5	26.7	23.6

It will be seen that, in 1910, 74.9 per cent of all land in farms was in farms operated by their owners (including part owners), 8.4 per cent in farms operated by managers, and 16.7 per cent in farms operated by tenants; the percentage for owners and for tenants being higher than, that for managers lower than, in 1900.

As shown by the next table, the average size of farms operated by managers in 1910 (1,449.1) was more than five times as great as that of farms operated by owners (274 acres), which was in turn somewhat larger than that of farms operated by tenants (269 acres). The average of each class of farms decreased between 1900 and 1910. In 1910 the percentage of farm land improved was highest for farms operated by tenants, and lowest for those operated by managers.

	Averag	ge Aeres	s per I	arm	Per	Cent	Avera	ge Valı	ie of L	and
					of F	arm	aı	ıd Buil	dings	
Farms			lmpr	oved	La	.nd				
Operated By-	A11	Land	La	nd	Impi	oved	Per I	arm	Per A	cre
	1910	1900	1910	1900	1910	1900	1910	1900	1910	1900
Total	293.1	383.6	93.2	92.1	31.8	24.0	\$8,848	\$4, 305	\$30.19	\$11
Owners	274.0	337.6	78.6	81.5	28.7	24.1	7,304	3,735	26.66	11
Managers	1, 149.1	2,031.3	394.4	235.5	27.2	11.6	37, 285	14,934	25.73	7
Tenants	269.0	271.2	129.2	103.9	48.0	37.9	12,988	4, 491	18.28	16

# FARM MORTGAGES, 1890 TO 1910

The Eleventh Census (1890) was the first to collect data relating to mortgage debt on farms. The basis of the returns was the "farm home" occupied by its owner. The same class of information was secured by the population schedules of the Twelfth Census (1900). The agricultural schedules of the Thirteenth Census (1910) secured practically the same information, except that the basis was "owned farms" instead of "owned farm homes"—a difference involving, however, no appreciable incomparability.

The following table relates to farms operated by persons owning all or part of the land, and shows for 1910: (1) the number of such farms reported as free from mortgage; (2) the number reported as mortgaged; and (3) the number for which no mortgage reports were secured. Comparable items are included for 1900 and 1890:

	Owned F	'arms* Own	ied Farm H	Homes Ow	wnęd Farm Homes†			
	19	010	19	00	1890			
Class	Number	Per Cent‡	Number l	Per Cent	Number Pe	er Cent		
Total	36, 993		17,850		15, 417			
Free from mortgage	26, 822	73.6	12, 447	73.0	11, 488	71.5		
Mortgaged	9,636	26.4	4,610	27.0	3, 929	25.5		
Unknown	535		793					

<sup>\*</sup> Includes all farms owned in whole or in part by the operator.

In 1910 the total number of farms owned in whole or in part by the operators was 36,993. Of this number, 26,822 were reported as free from mortgage, 9,636 were reported as mortgaged, and for 535 no report relative to mortgage indebtedness was obtained. The number of mortgaged farms constituted 26.4 per cent of the total number of owned farms, exclusive of those for which no mortgage report was obtained. The percentage is approximately the same as it was in 1900 and 1890. It may be noted that the percentages given for the three censuses are comparable, but that the number of mortgaged and unmortgaged farms reported in 1890 is not entirely comparable with the numbers reported at the later censuses, because at the census of 1890 the farms for which no reports were secured were distributed between the two classes of mortgaged and unmortgaged farms.

<sup>†</sup> The 524 "owned farm homes" for which no reports were secured were distributed between "free from mortgage" and "mortgaged" in 1890.

<sup>‡</sup> Per cent of combined total of "free from mortgage" and "mortgaged."

The statement of mortgage debt and of the value of mortgaged farm property is restricted to the farms of those farmers who own all of their land and report the amount as well as the fact of indebtedness. Of the 9,636 farms reported as mortgaged, 8,019 are wholly owned by the farmers, and for 7,571 of these the amount of mortgage debt is reported. Only these last-mentioned farms are included under 1910 in the next table, which presents data relating to mortgaged farms for 1910 and 1890. In this connection it should be noted that in 1890 the amount of mortgage debt on the farms with incomplete reports was estimated according to the percentages and averages obtained from farms with full reports, but that no such estimate is here made for 1910. The table gives a comparative statement of the value of mortgaged farms owned entirely by their operators, and the amount of indebtedness, together with the average value of such farms, the average debt per farm, and the average equity per farm for 1910 and 1890. Data regarding the amount of mortgage debt were not obtained in 1900.

	Owne	ed Farms or		
	Farm Hon	nes Mortgaged	Inc	rease
	1910*	1890†	Amount	Per Cent
Number	7,571	3,929		
Value-Land and buildings	\$77, 332, 068	\$17, 205, 433		****
Amount of mortgage debt	18,986,026	5, 573, 154		• • • • •
Per cent of debt, to value	24.6	32.4		
Average value per farm	10, 214	4,379	\$5,835	133.2
Average debt per farm	2,508	1,418	1,090	76:9
Average equity per farm	7,706	2, 961	4,745	160.2
Value—Land and buildings  Amount of mortgage debt  Per cent of debt to value  Average value per farm  Average debt per farm	7,571\$77,332,068 18,986,026 24.6 10,214 2,508	3, 929 \$17, 205, 433 5, 573, 154 32.4 4, 379 1, 418	\$5,835 1,090	133.2

<sup>\*</sup>Includes only farms consisting wholly of owned land and reporting value of farm and amount of debt.

The average debt of mortgaged farms increased in twenty years from \$1,418 to \$2,508, or 76.9 per cent, while the average value of such farms rose from nearly \$4,400 to over \$10,000, or 133.2 per cent. Thus the owners' equity increased on the average from almost \$3,000 to \$7,700, or 160.2 per cent. As a result of the greater relative increase in farm value than in farm debt, the mortgage indebtedness, which was 32.4 per cent of the value of the farm in 1890, had decreased to 24.6 per cent of this value in 1910.

<sup>†</sup>Includes all owned farm houses, estimates being made of value of farms and amount of debt for all defective reports.

FARMS BY SIZE GROUPS, 1910 AND 1900

The following tables show the distribution of farms by size groups at the censuses of 1910 and 1900:

Tota	al46, 170	24, 700	21, 470	86.9	100.0	100.0
Uı	nder 3 acres 569	794	-225*	-28.3*	1.2	3.2
3	to 9 acres	1,047	1,175	112.2	4.8	4.2
10	to 19 acres	1,032	1, 247	120.8	4.9	4.2
20	to 49 acres 3,882	2,122	1,760	82.9	8.4	8.6
50	to 99 acres 4,384	2, 526	1,858	73.6	9.5	10.2
100	to 174 acres	9,104	7, 251	79.6	35.4	36.9
175	to 259 acres 3,004	1,573	1,431	91.0	6.5	6.4
260	to 499 acres	3, 799	5,673	149.3	20.5	15.4
500	to 999 acres	1,466	960	65.5	5.3	5.9
1,(	000 acres and over 1,577	1, 237	340	27.5	3.4	5.0

<sup>\*</sup> A minus sign (-) denotes decrease.

Over one-third of all farms in Colorado are between 100 and 174 acres in size, which limits include the quarter-section farms. About one-fifth are in the "260 to 499 acres" class, which limits include the half-section farms. These two groups also contain the greater number of farms in 1900.

A study of the distribution of farms by size groups discloses the fact that the greatest relative gain in number from 1900 to 1910 was made in the "260 to 499 acres" group, but the greatest absolute gain occurred in the "100 to 174 acres" group. The farms in the "260 to 499 acres" group constituted a much larger percentage in 1910 than in 1900. The number of places "under 3 acres" reported as farms is only about three-fourths as great as ten years ago. This decrease may be due to a different interpretation by the enumerators as to what to include as a small farm, or may represent an actual decrease in that type of farm. Every other group shows a considerable absolute and relative increase, but the movement is least marked among the farms over 500 acres in size.

The following table shows the total and improved acreage, and the value of land and buildings, for farms of various size groups, consolidating into one group the farms of less than 20 acres (numbering in all 5,070), and also the farms of between 175 and 499 acres (numbering 12,476):

All I	All Land in Farms	Improve	Improved Land in	Value of	Value of Land and
	(Acres)	Farms	Farms (Acres)	Build	Buildings
Size Group	1900	1910	1900	1910	1900
Fotal	13 9, 474, 588	4, 302, 101	2, 273, 968	\$408, 518, 861	\$106, 344, 035
Under 20 acres	(32 22, 523	37, 538	18,695	25, 630, 351	6, 226, 058
50 to 49 acres	209 72, 403	99, 671	50,844	28, 470, 967	4,921,212
50 to 99 acres	199,057	235,870	129,033	37,509,580	7,340,830
100 to 174 acres	1, 409, 466	978,512	607,094	93, 753, 309	24, 226, 545
175 to 499 acres3,929,716	11, 701, 623	1, 456, 957	699, 038	115, 238, 983	26, 225, 580
500 to 999 acres	1,043,856	557, 631	297,601	40, 327, 319	11, 735, 660
1,000 acres and over	5,025,660	935, 922	471,663	67, 588, 352	25,668,150

The following table shows the per cent distribution, by size groups, of the items presented in the preceding table, and also the number of farms:

Per Cent of Total

2	Number	A11 :	Land	Impr La			ue of
Size Group	Farms	in F	arms	in F	arms	Buil	dings
191	0 1900	1910	1900	1910	1900	1910	1900
Total100.	0 100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 20 acres 11.	0 11.6	0.3	0.2	0.9	0.8	6.3	5.9
20 to 49 acres 8.	4 8.6	0.9	0.8	2.3	2.2	7.0	4.6
50 to 99 acres 9.	5 10.2	2.4	2.1	5.5	5.7	9.2	6.9
100 to 174 acres 35.	4 36.9	18.7	14.9	22.7	26.7	22.9	22.8
175 to 499 acres 27.	0 21.7	29.0	18.0	33.9	30.7	28.2	24.7
500 to 999 acres 5.	3 5.9	12.6	11.0	13.0	13.1	9.9	11.0
1,000 acres and over 3.	4 5.0	36.1	53.0	21.8	20.7	16.5	24.1

Of the total farm acreage of the state in 1910, 36.1 per cent was in farms of 1,000 acres and over, and 29 per cent in farms of 175 to 499 acres; these two being from the standpoint of aggregate acreage the most important size group. The most notable change between 1900 and 1910 was the decrease in the proportion of the total acreage which was in farms of 1,000 acres and over, offset by increases in the proportion in every other size group, the increase for the farms of 175 to 499 acres being the most considerable.

As shown by the next table, the percentage of farm land improved diminishes as the average size of the farms increases. For this reason, and also because buildings have normally a higher value in proportion to farm acreage on small than on large farms, the average value of land and buildings per acre of land also diminishes with the increase in the size of the farms; it is very much higher for the farms under twenty acres in size than for those of any other group.

	Per C	Per Cent of		Average Value of		
	Farm	Land	La	and and	Buildings	
Size Group	Impi	roved	Per F	`arm	Per .	Acre
	1910	1900	1910	1900	1910	1900
Total	21.8	24.0	\$ 8,848	\$ 4,305	\$ 30.19	\$ 11.22
Under 20 acres	92.5	\$3.0	5,055	2,167	633.91	276.43
20 to 49 acres	79.0	70.2	7, 334	2,319	225.59	67.97
50 to 99 acres	71.7	64.8	8,556	2,906	114.02	36.88
100 to 174 acres	38.7	43.1	5,732	2,661	37.11	17.19
175 to 499 acres	37.1	41.1	9, 237	4,882	29.33	15.41
500 to 999 acres	32.8	28.5	16, 623	8,005	23.73	11.24
1,000 acres and over	19.2	9.4	42, 859	20,750	13.85	5.11

# COLOR AND NATIVITY OF FARMERS, 1910

Prior to the Thirteenth Census no attempt was made to secure information on the farm schedules concerning the nativity of farmers.

Four-fifths of the Colorado farmers were native whites, and almost one-fifth foreign-born whites. Only 574, or 1.2 per cent of all farmers, were non-whites, 405 being Indians, 87 Japanese, 81 negroes, and 1 Chinese. About four-fifths of each color and nativity group were reported as owners, most of the remaining one-

fifth (nearly 19 per cent) being tenants.

Of the 8,398 foreign-born white farmers in Colorado in 1910, 1,128 were born in Sweden, 882 in England, 734 in Russia, 643 in Canada, 539 in Italy, 462 in Austria, 451 in Ireland, 434 in Denmark, 294 in Scotland, 242 in Switzerland, 176 in Norway, 111 in Wales, 101 in France, and 87 in Holland. Other European countries were represented by a total of 160 farmers, and non-European countries, other than Canada, by twenty-eight.

The table which follows shows the color and nativity of farm

operators by character of tenure for 1910:

	Farm Operators				tors			
	$\mathbf{T}$	otal				Per Ce	nt of T	Cotal
Color and Nativity	Number	Per Cent Distribution	Owners	Tenants	Managers	Owners	Tenants	Managers
Cotal	.46, 170	100.0	36, 993	8,390	787	80.1	18.2	1.7
Native white	.37, 198	80.6	29,801	6,711	686	80.1	18.0	1.8
Foreign-born white	. 8,398	18.2	6,726	1,572	100	80.1	18.7	1.2
Negro and other non-white	e. 574	1.2	466	107	1.	81.2	18.6	0.2

# VALUE OF FARM PRODUCTS, 1911

Colorado farm products brought \$89,858,000 to the farmers of the state in 1911. This is more than \$100 for every man, woman, and child in the state. The total value of the Colorado crop for 1910 was given by the Bureau of Statistics of the Department of Agriculture as \$31,752,000, and for 1911 the same crops are given by the same bureau in a final report, total value \$33,820,000.

All estimates by the bureau have been revised on the basis of the census showing for the crops of 1909. That year was a good one agriculturally, while 1911 was poor. The official figures for the crops of Colorado, quantitatively reported in 1911 and

1909, are:

Crop	1911	1909
Corn	\$ 4,073,000	\$ 3,432,000
Winter wheat	2,691,000	
Spring wheat	4,259,000	
All wheat	6,950,000	6,718,000
Barley	1,481,000	1, 247, 000
Rye	176,000	145,000
Potatoes	3, 118, 000	6,715,000
Нау	13, 150, 000	*15, 120, 000
Oats	4,872,000	4,051,000
Flaxseed	38,000	47,000
Total	\$33,858,000	\$37, 475, 000

<sup>\*</sup>Crop of 1910.

It will be noted that the value of wheat, barley, rye, and oats was each greater for 1911 than for 1909, and if the Colorado potato crop for 1911 had been up to the average, there would have been little difference in the totals in spite of the dry weather of 1911.

## ALL FARM PRODUCTS

The value of all farm products of Colorado in 1911, taking the official figures of the Department of Agriculture and estimates by experts based on census figures on the value of other products, was:

Crop	Value, 1911
Crops quantitatively estimated	\$33,858,000
Fruits	6, 782, 320
Honey	327,000
Emmer, spelt, buckwheat, kaffir corn, milo maize, broom	
corn	269,033
Alfalfa seed	191,001
Dry beans and peas	558,952
Sweet potatoes	5,280
Dairy products	6, 114, 317
Cattle	13, 490, 000
Horses and mules	6, 194, 061
Hogs	2,569,000
Sheep and goats	2,082,000
Wool	1, 113, 076
Poultry and eggs	2, 665, 545
Vegetables for table, canning, pickling, melons	8, 276, 335
Sugar beets	5, 362, 080

The following are official figures on the acreage in each crop in Colorado in 1911 and 1910:

Crop	1911	1910
Corn\$	373,000	\$ 346,000
Winter wheat	178,000	153,000
Spring wheat	260,000	250,000
Barley	74,000	75,000
Rye	21,000	20,000
Potatoes	90,000	86,000
Hay	707, 000	700,000
Oats	290,000	284,000
Flaxseed	3,000	3,000
Total\$1	, 996, 000	\$1,917,000

The 1911 yield of winter wheat in Colorado was 18 bushels to the acre; for the United States only 14.8 bushels.

Per cent gain in one year.....4.12

## BIG SPRING WHEAT YIELD

The 1911 yield of spring wheat in Colorado, 19.5 bushels per acre, was nearly double the average yield for the entire country, which was only 9.4 bushels.

The average yield per acre of barley in Colorado in 1911 was 29 bushels; in the United States, only 21 bushels.

The average yield of potatoes in Colorado in 1911 was only 35 bushels per acre, against a ten-year average of 135 bushels.

The average yield per acre of hay in Colorado in 1911 was 2 tons, against an average for the entire country of only 1.1 tons.

Colorado's oats crop in 1911 averaged 35 bushels to the acre, against an average of 24.4 bushels for the nation.

# VALUE OF FARM PRODUCTS, 1912

The greatest farm-crop year in the history of Colorado, and stupendous advances in agricultural production in this state as compared with other states, are graphically portrayed in statistics issued by the United States Department of Agriculture for 1912.

In every commodity of the field produced in Colorado the yield of 1912 has far outstripped the records of previous seasons. Colorado's wheat production jumped to 10,000,968 bushels—nearly 2,000,000 over the yield of 1911 and nearly 4,000,000 bushels over 1909. Colorado's wheat area is now 453,000 acres,

as against 438,000 acres in 1911. Its value is over \$8,000,000, as against less than \$7,000,000 in 1911. The yield per acre, 1912, was 24.2 bushels; in 1911, 18.92 bushels.

Colorado has in hay \$70,000 acres, with a production of 1,905,000 tons. In 1911 there were 785,000 acres, with a yield of 1,570,000 tons. Colorado farmers realized \$16,500,000 on their crops in 1912; the previous year, \$1,000,000 less. This is based on average price paid to farmers on December 1, which was \$8.70. In 1910 the price ranged around \$10.80 per ton. The yield of

hay per acre in 1912 was 2.19 tons; in 1911, 2 tons.

Although the oat-crop area remained stationary as compared with the previous year, there were raised on 290,000 acres 12,000,412 bushels, against 10,150,000 bushels in 1911. On December 1 basis, the farmers received less than in 1911 for their crop, realizing \$4,700,000, as compared with \$4,872,000 in 1911. Yield per acre, 1912, 42.8 bushels; 1911, 35 bushels. This yield outstrips any previous year by nearly three bushels per acre. Colorado handled 957,142 tons of sugar beets this year, at an average value of \$5.55 per ton.

There were 124,800 tons of sugar manufactured; 86,437 acres were harvested, this state standing third in production, California

and Michigan being ahead.

The acreage of corn in Colorado in 1912 jumped to 420,000—an increase of 47,000 over 1911. The crop brought farmers \$4,368,000, against \$4,073,000 in 1911. The corn crop in 1909 was \$3,432,000. The production was 8,000,736 bushels—an increase of \$3,500,000 bushels over last year. Yield per acre, 20.8 bushels; last year, 14 bushels.

A reduction of the Colorado potato acreage by 5,000 acres had no effect on the yield. There were 8,375,000 bushels, as compared with 3,150,000 last year. Value of crop, \$3,000,311; last year, \$3,118,000. In 1909 the state raised 11,000,700 bushels at a valuation of \$6,000,715. The yield per acre this year was 95 bushels, as against 35 bushels last year, and 137 in 1909.

The yield of barley in 1912 increased by nearly 1,000,000 bushels. Seventy-six thousand acres were under cultivation. The

crop brought \$1,482,000, based on the price December 1.

In rye and flaxseed Colorado practically doubled the production over 1911; 25,000 acres of rye and 12,000 acres of flax seed were cultivated.

# NUMBER OF ACRES OF STATE-OWNED LANDS BY COUNTIES

Colorado sold 79,639.33 acres of its lands during the two years ending November 30, 1912, and realized approximately \$1,000,000 for it. The state has had 2,167,332.93 acres under lease, realizing in rentals \$209,136.43. There are 1,171,138.59 acres of state land vacant.

Colorado now owns 3,332,751.76 acres, of which 2,039,977.32 acres are grazing-land, 67,719.13 acres agricultural, 21,876.11 coal, 1,140 acres mineral, and 6,620.37 acres listed in the miscellaneous column. The state received in rental in the last biennial period \$31,366.80 from agricultural lands, \$102,585.36 from coal lands, \$12,140 from mineral lands, and \$6,538.42 from miscellaneous lands.

When Colorado was admitted to the Union, the federal government made a grant to the state of two sections of land in every township, the lease and sales proceeds to go to the school funds. Sections 16 and 36 were the usual selections. Certain counties were Indian reservations when Colorado became a state, and have not been state lands. The state received in other districts sections in lieu of lands in these counties. The proceeds from sales and rentals are divided among all counties, regardless of whether they have state lands, according to their school population.

This list shows location of state lands and lands sold in the last biennial period:

		Now
	Lands	Owned
Counties	Sold	by State
Adams	1,924.08	\$ 39,207.48
Arapahoe	320.00	26,452.20
Archuleta	320.00	28,275.00
-Baca	10.00	88,448.38
Bent	1,599.70	138,789.54
Boulder	1.00	7, 956.68
Chaffee	160.00	26,776.68
Cheyenne	3,360.00	52,119.10
Clear Creek		6,534.41
Conejos	7,949.56	63,831.74
Costilla		44,881.43
Crowley		61,898.64
Custer	240.00	13,466.75
Denver	81.60	686.60
Dolores		13,280.00
Douglas	1,040.00	14,343.62
Eagle	472.52	22,648.45
Elbert	6,877.64	120, 144. 97
El Paso	867.47	222,774.07
Fremont	1,065.67	55, 195.00
Gilpin		2,800.00

		Now
•	Lands	Owned
Counties	Sold	by State
Grand	1,404.50	71,662.68
Gunnison	* * * * *	16,715.00
Hinsdale		14,480.00
Huerfano		49,738.55
Jackson	160.00	61,270.71
Jefferson	744.04	16,955.31
Kiowa	11,360.00	80,019.77
Kit Carson	317.82	63,539.68
Lake		1,564.25
La Plata		24, 057. 25
Larimer	1,822.83	75,542.42
Las Animas	1,170.64	145,602.70
Lincoln	3,146.17	149, 476.86
Logan	1,026.95	152,625.36
Mineral	235.94	4, 474.06
Moffat	1,558.32	184,863.48
Montezuma	1,811.29	45,930.25
Morgan	160.00	62,877.08
Otero	2,449.02	82,530.83
Ouray		2,670.72
Park	120.00	87,890.15
Phillips	954.95	21,824.93
Pitkin		3,750.00
Prowers	1,140.87	56,690.22
Pueblo	3,495.92	181, 481.73
Rio Grande	1,498.42	29, 495.42
Routt	3,899.83	80,730.90
Saguache	5, 339.73	104,993.41
San Juan		10,760.00
San Miguel		31, 158. 27
Sedgwick	320.00	31,845.38
Summit		1,271.00
Teller		14,631.80
Washington	800.00	91,960.00
Weld	1,153.57	156,062.33
Yuma	6, 429.38	71, 178. 43
Totals	79,639.33	\$3, 332, 751.76

# Value of Live Stock, 1912-1913 (U. S. Report, Department of Agriculture)

		Per Cent
Jan. 1, 1913	Jan. 1, 1912	Increase
Horses\$28,188,000	\$25,680,000	10
Mules	1,700,000	4
Milch cows 9,254,000	7,849,000	18
Other cattle 31,406,000	25, 420, 000	23
Sheep 6, 253, 000	4,737,000	32
Swine	1,688,000	34
Totals\$79, 124, 000	\$67, 074, 000	17.8

The number of horses in the state is 324,000, or an increase of 1 per cent for the year. The value per head increased from \$80 to \$87, which represents \$23 per head above the ten-year average.

There are 172,000 milch cows in the state, or a gain of 3 per cent in the year. The average price advanced from \$47 to \$53.80, which is \$17.20 above the ten-year average. The number of mules increased 2 per cent, bringing the total up to 17,000, and advancing the average price from \$100 to \$104.

The total number of cattle in Colorado is placed at 921,000, selling at an average value of \$34.10 per head. The figures show that the average price in Colorado is \$8 above the national average.

# AGRICULTURAL OPPORTUNITIES IN COLORADO

## CLIMATE AND SOIL

The climate is free from extremes of temperature; the mean annual temperature for the plains and valleys is about forty-five degrees. The annual rainfall ranges from ten to twenty-two inches in the farming districts. There are more than 300 days of sunshine in every year.

Colorado is still adding to its farm acreage, but the mountainous surface and low rainfall render some areas unfit for agriculture, while others are adapted only to grazing. The mean altitude of Colorado is the highest of any state in the Union. Only one-fourth of the state lies at an elevation of less than 5,000 feet, while two-thirds ranges in altitude from 6,000 to 14,000 feet above sea-level. The central and west portions of the state comprise a large area of the mountainous mass of the Rockies.

Two-fifths of Colorado lies within the Great Plains section of the United States and consists of a long slope from the eastern front of the Rocky Mountains, descending from altitudes of 7,000 feet to altitudes of approximately 3,500 feet within the prairie section along the eastern border. In these sloping areas the eastward-flowing rivers have cut deep, narrow valleys, which are bordered by silty and sandy alluvial soils at the lower levels, and by sandy and gravelly loam bench-lands at higher altitudes.

Within the central mountain mass there are numerous parks and smaller valleys, the floors of which are formed from alluvial or lacustrine deposits. Wherever water is available and the altitude is not too great, these are irrigated for the production of vegetables, grain, grass, and fruit. To the west of the great mountain divide the precipitation is generally too light for the growing of crops without irrigation; but the streams supply large volumes of water for irrigation in the valleys. To the east of the divide, on the plains, the rainfall is heavier; and some crops are grown without irrigation throughout this region. Here, however, near the streams, irrigation has been introduced, the largest irrigated areas in the state being in the valleys of the South Platte and Arkansas Rivers, extending from the mountains to the eastern boundary of the state.

#### IRRIGATION

Of the 46,170 farms in the state, 25,926, or 56.2 per cent, are reported as irrigated. The area reported is 2,792,032 acres, or 64.9 per cent of the improved land in farms. The area to which enterprises existing in 1910 were capable of supplying water was 3,990.166 acres, and the total area included in irrigation projects completed or under way was 5,917.457 acres. The United States Reclamation Service reports on its Grand Valley project in Mesa. County as follows:

Irrigable area: 53,000 acres. Present status of irrigable lands: 19,620 acres entered subject to the reclamation act, 10,450 acres withdrawn from entry, 22,930 acres in private ownership. Length of irrigation season: from April 1 to October 31, 214 days. Character of soil of irrigable area: sandy loam, sandy mesas, and adobe. Principal products: fruits, sugar beets, alfalfa. Principal markets: large cities east of Rocky Mountains for fruit; other products, local.

On its Uncompangre Valley project, season of 1911, the Reclamation Service reports:

Some of the landholders have subdivided their holdings, and many sales of small tracts to new settlers have been made. The crop statistics gathered for the season of 1910 showed the following areas in cultivation within the limits of the project:

Alfalfa, 22,100 acres; oats 3.075 acres; orchards, 5,650 acres; wheat, 1,425 acres; beets, 2,000 acres; potatoes, 2,950 acres; garden, 275 acres; corn, 125 acres. Of the area cultivated, 24,000

acres were furnished water from the government canals and 13,500 acres from the private ditches in the valley. On the land supplied with water from Gunnison River excellent crops were raised, and for the first time in several years a third cutting of alfalfa was secured. Prices were good, and the farmers, as a whole, were prosperous, though a partial failure of the fruit crop carried hardship to those who were dependent entirely upon that crop.

#### CROPS

The leading field crops of the state, in the order of their importance, as judged by total value in 1909, are: hay and forage, \$17,282,000; wheat, \$6,464,000; oats, \$4,177,000; potatoes, \$3,705,000; corn, \$2,674,000; and barley, \$1,101,000. Of the totals for hay and forage crops, alfalfa contributes nearly two-fifths of the acreage and over one-half of the quantity and value. Next below alfalfa, in both acreage and value, are "wild, salt, or prairie grasses."

Alfalfa takes the place of clover and timothy. Three cuttings are taken from the fields, each yielding from one to two tons, the yield at the end of the year often being as high as seven tons to the acre. Four tons per acre is a conservative average yield estimate for the state. It is worth from \$5 to \$10 a ton in the stack, or \$7 to \$15 if delivered at the market. It costs about \$2 a ton to raise.

Of the total acreage in wheat, nearly one-half is common spring wheat and a little more than one-seventh is durum or macaroni. Of the cereals, oats ranks second in value and third in acreage, while corn is second in acreage and third in value. Among other sundry crops, aside from potatoes, which rank as a leading crop of the state, dry peas, alfalfa seed, dry edible beans, and broom corn rank highest according to value. The average value per acre of all cereals combined is \$13.98.

Most of the corn of the state is grown east of the mountains, the leading corn-growing counties being Yuma, Kit Carson, Phillips, Washington, and Elbert, which report more than half of

the total corn acreage.

Many European immigrants have established themselves on gardens near the principal cities of Colorado, either on rented or purchased land, and they get large incomes from small tracts; but there is room for more, as the value of garden products shipped into Colorado annually from other states amounts to \$3,000,000. Both prices and rentals of garden land are high; but the income corresponds, and it takes very little capital to get a start in gardening, as the rent does not have to be paid in advance, and the land begins to bring in money from the very start. Some of the garden crops in which there is large profit are celery, cabbage, cauliflower, onions, asparagus, peas, beans, cucumbers, and tomatoes. In quality the celery and other vegetables grown in Colorado are first class, and they bring high prices.

Colorado potatoes are famous. The average yield of highquality potatoes on irrigated land in Colorado is 200 bushels per Many of the yields go over 300 and 400 bushels per acre. Although the best-known potato-producing district is around Greeley, in Weld County, other sections of the state are rapidly coming to the front as good potato lands. These districts are: San Luis Valley, Uncompangre Valley, Durango and vicinity, Routt, Moffat, and Garfield Counties. Fine potato land can be bought for \$45 an acre up.

The growing of sugar beets is an important industry. The climate and soils of the state are well adapted to the successful cultivation of this important commercial vegetable. (See further information about sugar-beet culture under "Prices of Farms and

Inducements to Settlers.")

Colorado apples, peaches, and other orchard products com mand the top of the market in eastern centers. Colorado is one of the leading fruit-producing states of the West. Although good fruit land is rather high in price—\$100 to \$200 an acre for raw land—returns from the orchard lands are proportionately large. Gross yields of \$200 to \$1,000 worth of fruit on an acre are not uncommon.

There is an opportunity for immigrants in the markets of Colorado for small fruits, such as strawberries, raspberries, dewberries, and grapes. Small fruits can be combined with truck gardening, yielding quicker and nearly as large profits as the tree fruits, when raised in this way.

#### STOCK-RAISING

Of the total number of farms enumerated in 1910, 43,033, or 93.2 per cent, reported domestic animals of some kind, the number without any domestic animals being 3,137. Of all the farms in the state, 74.1 per cent report cattle; 70.7 per cent. "dairy cows;" and only 25.2 per cent, "other cows." The average number of dairy cows per farm reporting is only about five, while the average number of cows not kept for milk, per farm report.

ing that class, is about thirty-five.

The value of horses and colts is about nine-tenths that of cattle, and the two together represent about 83 per cent of the value of all live stock. The value of poultry in the state is now nearly two-thirds as great as that of swine and nearly one-sixth as great as that of sheep. The average value of bees per farm reporting was \$43.18 in 1900 and \$86.61 in 1910. About seven farms in every hundred report bees. Colorado imported \$4,000,-000 worth of dairy products last year to supply her own markets. Dairying is carried on in the dry-farming sections as well as in the irrigated districts.

Opportunities for farmers to raise cattle and sheep in small herds are unlimited. The day of huge sheep and cattle herds is past in Colorado, and the small cattleman and sheep-raiser must now supply the demand. There are big profits in hog-raising, especially in the San Luis Valley. Over \$10,000,000 worth of cattle and other live stock is brought to Colorado from other states for consumption here, so that all stock-raisers have a good home market. Raising horses and mules is profitable, both because of the very good prices they bring and because of the ease in raising them in Colorado's dry, rare climate.

Poultry-raising affords a good opportunity to the immigrant, because the returns are quick, the investment comparatively small, and the products always in demand at profit-yielding prices. Hens are good money-makers on both irrigated and dry farms. On the homesteads of eastern Colorado, or land that can be bought for \$5 to \$20 an acre in the same part of the state, drought-resisting crops will always provide food for poultry. Eggs average from 20 to 30 cents a dozen the year around, some times going to 60 cents. Live poultry brings from 10 to 20 cents a pound. About \$4,000,000 worth of poultry products is imported into Colorado every year.

## PRICES OF FARMS AND INDUCEMENTS TO SETTLERS

The total area of the state is 66,560,000 acres. Arable area, 22,400,000 acres; irrigable area, 6,000,000 acres; area now under irrigation, 2,528,000 acres; area adapted to dry-farming and stock-raising, 20,000,000 acres.

There are still about 19,000,000 acres of government land open to entry in Colorado. About 6,500,000 acres of this government land are adapted to agriculture. Immigrants who have declared their intention to become citizens of the United States may obtain not to exceed 320 acres of this land in one or more of the following ways:

Under the homestead act: limit, 160 acres; no charge for the

Under the enlarged homestead act: limit 320 acres; no charge for the land.

Under the desert-entry act: limit, 320 acres; price \$1.25 an acre; minimum improvements required, \$1 per acre a year for three years; usual cost of putting water on the land, \$30 to \$40 an acre.

Area of state lands, 3,412,391; area of Carey Act lands now open, 40,000 acres. Minimum price of state lands, \$3.50 an acre; average price last year, \$11.59 per acre. Terms on state land selling for less than \$25 an acre, 10 per cent down and balance in eighteen annual payments at 6 per cent interest. State lands for grazing and farming may be leased; rental, from 12 cents an acre up.

Prices of irrigated land range from \$50 to \$200 an acre. The usual terms are one-fourth to one-half down, and balance in three to seven years. Good irrigated land will yield an income of 25 per cent annually on its valuation, and often pays

for itself in two or three years—occasionally in one. Irrigated land may be rented, either on shares or for cash.

Many Europeans who came to Colorado with practically nothing a few years ago, and are now prosperous farmers, got their start by leasing land from the beet-sugar companies. These companies will lease land, buildings, and equipment, and provide expert advice to the lessees. In this way the immigrant becomes familiar with farming under irrigation and other local conditions, and the step from the condition of tenant to that of owner is facilitated with a minimum of risk.

The average value of a Colorado farm, including equipment, has advanced during the last decade from \$6,520 to more than \$10,600, of which over \$8,800 represents the value of land and buildings, over \$1,500 the value of live stock, and nearly \$300 the value of implements and machinery. The average value of land and buildings is now \$30.19 an acre, or somewhat less than three times as much as ten years ago.

#### FARM EXPENSES

Almost half of the farmers hire labor, and the average amount expended by the farmers hiring is \$487.78. A little less than one fifth of the amount reported as expended for labor is in the form of rent and board. During the ten-year period 1899 to 1909 the total expenditure for labor increased 163.8 per cent. About two farmers out of every five report some expenditure for feed, but only about one out of every hundred purchased fertilizer. The total amount reported as paid for fertilizer shows an increase of 163.1 per cent since 1899, the average per farm reporting being \$109.13.

## GENERAL AND SPECIAL INDUCEMENTS

Although the metal output of the state in 1910 was \$33,000, 000, the coal output \$24,000,000, and the value of the products manufactured \$112,000,000, agriculture and fruit-growing probably offer the best opportunities to immigrants. It is especially easy for them to get a start in truck-farming and beet-growing, even though they have but little money. To take advantage of the opportunity to acquire free land from the government a larger capital is necessary, in order to secure equipment and provide support for the family until the land can be made productive.

Colorado wants immigrants, and can offer them exceptional opportunities for becoming established and acquiring a competence. They can find work in the beet fields and truck gardens. They can take up free homesteads, buy small tracts of irrigated land on easy terms, or rent land for beet-growing, truck-gardening, etc.; and in the fact that the state imports annually between \$30,000,000 and \$40,000,000 of farm products there is assurance of a good cash market at high prices for all that can be raised by 30,000 more farmers.

As regards school advantages in Colorado, the schools of La Plata County may be taken as representative of educational opportunities in the state. The county superintendent of schools reports twenty-nine school districts, costing over \$78,000 a year, with the rural schools steadily increasing.

Commercial clubs and farmers' organizations, such as the farmers' unions and granges, are ready to assist newcomers to

get located and started right.

## COLORADO SOIL LEADS NATION IN FERTILITY

Conclusive evidence of the superiority of the agricultural lands of Colorado over those of almost every other state in the Union is given in the Agricultural Bulletin of the Census Bureau for the Thirteenth Census.

The report contains general information showing the growth and development in agriculture of each state in the decade between 1899 and 1909. The figures show that Colorado's acreage of cultivated area has increased more rapidly than that of any other state, with the exception of small sections in the Rocky Mountain district. But the greatest increase has been in the yield per acre, as is shown by a comparison of the percentage of increase in acreage, as compared with the percentage of increase in production.

# CEREALS MAKE BIG INCREASE

The percentage of increase in acreage cultivated in cereals of all kinds in the decade was 101.4. The percentage of increase in the production of all cereals during the period was 214.6, showing that the yield per acre increased much more rapidly than the acreage.

In the production of corn during the same period the increase in acreage was 283 per cent, and the increase in yield was 425.8 per cent. The same general relation between increase in acreage and increase in total production holds good for other crops.

The acreage of all cereals cultivated in Colorado in 1909 was

1,057,905, as compared with 525,299 for 1899.

The Rocky Mountain district, all tributary to Denver markets, showed by far the largest increase in acreage of cultivated agricultural lands. The same section also showed fully thirty times as great a percentage of increase in production as any other geographical section of the country.

## HAY CROP LARGEST

The increase in the acreage of hay and forage produced was 35 per cent, and the increase in yield was but 36.4. The increase in value of crops was 111.8 per cent, due to the enormous advance in the value of hay in the past few years. The acreage cultivated in hay and forage crops in the state is larger than for any other crop, being 1,285,061 acres.

# POTATO PRODUCTION BEST

The record for the production of potatoes is one of the best shown by the report. While most of the potato-growing sections are showing decreases in the yield per acre, Colorado showed a most promising increase, proving that Colorado's soil is increasing in productivity, while that in older sections of the country is becoming less productive from year to year. The increase in acreage of potatoes cultivated was 94.8 per cent, while the increase in yield was 163.8 per cent.

## COLORADO SUGAR-BEET INDUSTRY IN 1911 AND 1912

	1912	1911	Increase
Tons of beets paid for	\$ 1,690,595	\$ 964,000	\$ 726,595
Money paid to farmers	9, 877, 299	5, 362, 080	4, 515, 299
Money paid factory laborers	2, 324, 800	1,329,000	995,800
Money paid field laborers	2, 393, 300	1,620,000	773,300
Money paid for supplies	2,060,000	1,205,000	885,000
Money invested in factories exclusive of			
land	22, <del>6</del> 00, 000	19, 250, 000	3, 350, 000
Number of factories	17	17	
Sugar produced, pounds	454, 770, 055	236, 454, 000	218, 316, 055
Factory value of sugar	20, 782, 991	10, 569, 493	10, 213, 497

## BEET GROWERS' CONTRACTS WITH SUGAR COMPANIES

That the farmers are not reaping the profits from the enormous increase in the price of their products was never better illustrated than in the enormous and unwarranted profits of the Sugar Trust. The government in its suit to dissolve the Sugar Trust introduced the following letter written by Mr. Morey, of Colorado, to Mr. Washington B. Thomas, of Wall Street, New York, then acting as president of the Sugar Trust:

"You will notice this year that, in addition to the regular 2½ per cent depreciation which we have been deducting, we have set aside \$1,000,000 as depreciation reserve. I did not want this year's earnings to appear as large as they would if we had not made this entry. You will note that our total surplus, as shown by these statements, is a little over \$5,000,000. The actual surplus is nearer \$9,000,000 than \$5,000,000."

It would appear that a company that can make \$9,000,000 profit in one season was not in need of any great amount of "protection" for American labor. The facts are that there is a

small amount of "American labor" employed in the beet fields of Colorado, Japanese, Mexicans, and other foreigners being mainly employed, to the exclusion of "American labor."

Mr. Albert Dakin, attorney for the beet-raisers, in a statement to his clients says in part:

"If the Great Western Sugar Company had paid to its growers in northern Colorado for their beets a price equal to that received by the Michigan growers for the past six or seven years (p. 3406, Hardwick Hearings), the northern Colorado farmers would have gotten about twelve million dollars in excess of the amount they did get for the beets actually raised. It is needless to say this extra amount of eash scattered among our 4,000 growers would have made that period of short crops and panic a period of prosperity for both farmers and business men with whom they trade. Even the Arkansas Valley contract in force up here would have added millions to the farmers' pockets during the panic and short-crop period.

"Later reports are said to show that the Great Western has a surplus of about \$13,000,000, and that it desisted from building a skyscraper business block in Denver lest that be too plain evidence of its enormous profits.

"The officers of the Great Western say it does not pay more because its growers don't ask for more.

"Michigan farmers asked for more (pp. 3337, 3406, and 3526, Hardwick Hearings) and got better than \$2 per ton above what our farmers get."

The difference between the contracts made between the growers and the American Beet Sugar Company and the Great Western Sugar Company is here shown:

- "Memorandum of Agreement Between....., Grower, and the American Beet Sugar Company.
- "4. Beets delivered and accepted will be paid for by the company at the rate of \$5 per ton for beets testing 12 per cent sugar, and 33 1/3 cents additional for each per cent, fractions in proportions.
- "5. The company will pay 50 cents per ton additional for beets siloed and delivered; siloed beets shall not be delivered except upon call of the company.
- "7. The company will give to the grower, at the factory without charge, beet pulp not exceeding 20 per cent of the weight of the beets delivered by him under this contract, providing the grower gives written notice to the company, previous to July 1 of the quantity desired, the pulp to be taken by the grower during the time of slicing, as the company may direct."

American Beet Sugar Co.

Great Western Sugar Co.

For Beets Testing—	Price Fo	or Beets Testing—	Price
12 per cent	\$5.00	12 per cent	.\$5.00
13 per cent	5.33 1-3	13 per cent	. 5.00
14 per cent	5.66 2-3	14 per cent	. 5.125
15 per cent	6.00	15 per cent	. 5.375
16 per cent	6.33 1-3	16 per cent	. 5.625
17 per cent	6.66 2-3	17 per cent	. 5.87 <b>5</b>
18 per cent	7.00	18 per cent	. 6.125
19 per cent	7.33 1-3	19 per cent	. 6.375
20 per cent	7.66 2-3	20 per cent	. 6.625
21 per cent	8.00	21 per cent	. 6.875
22 per cent	8.33 1-3	And so on, accounting only for	each
23 per cent	S.66 2-3	half per cent of the sugar	in the
24 per cent	9.00	beets. Beet pulp, 50 cents pe	r ton.
25 per cent	9.33 1-3		

It will be noticed that the American Beet Sugar Company gives the growers beet pulp, while the Great Western charges 50 cents per ton for it.

# CHAPTER VII

## MANUFACTURES OF COLORADO

STATISTICS OF MANUFACTURES FOR THE STATE, CITIES, AND INDUSTRIES

## IMPORTANCE AND GROWTH OF MANUFACTURES

Colorado is pre-eminently a mining state, but at each census from 1869 to 1899 the proportion which the value of its manufactures formed of the total value of the manufactures of the United States increased steadily. Since 1899, however, this proportion has decreased, amounting to eight-tenths of 1 per cent in that year, seven-tenths of 1 per cent in 1904, and six-tenths of 1 per cent in 1909. During this period of forty years the gross value of products per capita of the entire population of the state increased from \$72 in 1869 to \$163 in 1909.

Much of the manufacturing activity of the state—such as smelting, iron and steel operations, cement, and marble and stone work—is dependent upon the development of its extensive mineral resources. Furthermore, many manufacturing establishments owe their existence to the needs of the mining industry.

Irrigation of the fertile valleys of the Platte and Arkansas Rivers and other streams has made the beet-sugar production of Colorado greater than that of any other state. The canning industry is also the outgrowth of the development of irrigation in the state. Coal and timber as fuel for industrial consumption and timber as manufacturing material are abundant, and in general accessible.

The fact that Colorado is a natural grazing country has been responsible for the development of such industries as slaughtering and meat-packing, the manufacture of butter, cheese, and condensed milk, the rendering of grease and tallow, and wool-scouring.

The following table gives the most important figures relative to all classes of manufactures combined for the state as returned at the censuses of 1909, 1904, and 1899, together with the percentage of increase from census to census:

			Per Cent of Increase				
	Numbe	r or Amount		1904-	1899-		
	1909	1904	1899	1909	1904		
Number of establishments	2,034	1,606	1,323	26.7	21.4		
Persons engaged in manu-	•						
factures	34, 115	25,888	*	31.8	*		
Proprietors and firm members	1,722	1,398	*	23.2	*		
Salaried employes	4, 326	2, 677	1,870	61.6	43.2		
Wage earners (avg. number).	28,067	21,813	19,498	28.7	11.9		
Primary horse-power	154, 615	124,907	43, 434	23.8	187.6		
Capital	3162, 668, 000	\$107,664,000	\$ 58,173,000	51.1	85.1		
Expenses	114,690,000	88, 282, 000	77, 748, 000	29.9	13.6		
Services	25, 560, 000	18,649,000	13,767,000	37.1	35.5		
Salaries	5, 648, 000	3, 549, 000	2,059,000	59.1	72.4		
Wages	19,912,000	15, 100, 000	11,708,000	31.9	29.0		
Materials	80, 491, 000	63, 114, 000	60, 751, 000	27.5	3.9		
Miscellaneous	8, 639, 000	6,519,000	3, 230, 000	32.5	101.8		
Value of products	130, 044, 000	100, 144, 000	89, 068, 000	29.9	12.4		
Value added by manufacture							
(value of products less cost							
of materials)	49, 553, 000	37, 030, 000	28, 317, 000	33.8	30.8		

<sup>\*</sup>Figures not available.

In 1909 the State of Colorado had 2,034 manufacturing establishments operating under the factory system, which gave employment to an average of 34,115 persons during the year and paid out \$25,560,000 in salaries and wages. Of the persons employed, 28,067 were wage-earners. These establishments turned out products to the value of \$130,044,000, to produce which materials costing \$80,491,000 were consumed. The value added by manufacture was thus \$49,533,000, which figure, as explained in the Introduction, best represents the net wealth created by manufacturing operations during the year.

In general this table brings out the fact that the manufacturing industries of Colorado as a whole showed a greater development during the more recent five-year peariod 1904-1909 than during the preceding five-year period 1899-1904. During the later period the number of establishments increased 26.7 per cent and the average number of wage-earners 28.7 per cent, while the value of products increased 29.9 per cent and the value added by manufacture 33.8 per cent. As pointed out in the Introduction, it would be improper to infer that manufactures increased in volume to the full extent indicated by these figures

regarding values, since the increase is certainly due, in part, to the increase that has taken place in the price of commodities. It is interesting to note that the percentage of increase for total expenses from 1904 to 1909, 29.9, is exactly the same as that shown for value of products and that the percentages of increase for number of establishments, average number of wage-earners, and cost of materials vary but little from that percentage. No decreases are shown for either five-year period.

The relative importance and growth of the leading manufacturing industries of the state are shown in the following table:

						ъ	11112		Or	LaZi	1130		LALI	DI.	.CB						100	
Per Cent of Increase* Value	Jue	Added by	Added by	Manufacture	1899-	1904	30.8	-12.9	46.7	44.6		39.3	-10.8	9.9	57.7	0.3	42.2	58.9	151.3	57.1	100.5	44.2
	Va			Manuf	1904-	1909	33.8	151.3	21.3	24.1		52.3	42.7	64.9	42.9	44.6	99.0	77.5	118.4	61.4	25.8	ಕ್ಕ್
		Value of	Products	1899-	1901	12.4	—23.v	30.2	47.9		67.4	-1.2	5.3	65.3	3.8	108.7	64.4	102.2	30.5	63.1	44.0	
$\Gamma$ 6		Val	Pro	1904-	1909	29.9	190.5	36.1	27.3		24.7	43.8	9.79	49.4	56.2	81.4	104.4	86.1	82.7	49.3	4.3	
ded by	cture	Per	Cent	Distri-	bution	100.0	2.1	2.4	10.4		8.0	6.3	5.6	3,4	4.9	8.0	2.3	1.7	1.0	1.0	e3.	
Value Added by Manufacture	Manufa				Amount	\$49, 553, 000	1,'362,000	1,196,000	5, 156, 000		3, 955, 000	3, 103, 000	2, 789, 000	1,672,000	2, 404, 000	416,000	1,159,000	856,000	515,000	492,000	663, 000	
Value of Products		Per	Cent	Distri-	bution	100.0	7.4	6.1	5.4		5.0	4.5	3.2	3.1	2.5	1.8	1.3	1.2	8.0	8.0	0.8	
					Amount	\$130,014,000	9,657,000	7, 868, 000	6, 962, 000		6,559,000	5, 907, 000	4,185,000	3,969,000	3,311,000	2,340,000	1,670,000	1,528,000	1,054,000	1,023,000	1,021,000	
Wage Earners		Per	Cent	Distri-	bution	100.0	61	1.0	S.		14.2	6.5	8	3.2	1.5	2.0	60	1.8	1.0	1.2	io.	
		of		Average	Number	28,067	629	282	2,366		3, 993	1,813	2,190	889	424	210	922	518	569	349	427	
		Number of	Estab-	lish-	ments .	2,034	13	7 9	439		67	111	263	250	11	39	69	30	30	35	66	
		Nur	Es	, II	INDUSTRY	ALL INDUSTRIES	Slaughtering and meat packing	Flour-mill and grist-mill products	Printing and publishing	Cars and general shop construction and re-	pairs by steam-railroad companies	Foundry and machine-shop products	Lumber and timber products	Bread and other bakery products	Liquors, malt	Butter, cheese, and condensed milk	Briek and tile	Canning and preserving	Leather goods	Confectionery	Tobaceo manufactures	

Per Cent of Increase*	Value	Added by	Manufacture	1899-	1904	-16.3	76.3	217.5	18.9	36.3
	Val	Adde	Manuf	1904-	1909	2.8	45.6	12.2	-33.2	24.2
		Value of	Products	1899-	1904	-10.1	84.3	154.1	37.1	5.6
		Val	Pro	1904-	1909	:	51.6	25.5	-44.6	15.1
Value Added by	cture	Per	Cent	Distri-	bution	8.0	0.9	9.0	7.0	45.1
	Manufacture				Amount	406,000	444,000	285,000	328,000	22, 352, 000
Value of Products		Per	Cent	Distri-	bution	0.5	0.4	0.4	0.3	54.5
					Amount	626,000	570,000	542,000	436,000	70, 816, 000
rners		Per	Cent	ge Distri-	bution	1.0	6.0	9.0	8.0	42.2
Wage Earners		)f		Average	ments Number bution	267	251	176	214	11,848
		Number of	Estab-	lish-, Avera	ents 1	77	30	14	9	445
		Nu	臣	1	INDUSTRY	Marble and stone work	Ice, manufactured	Furniture and refrigerators	Pottery, terra-cotta and fire-clay products	All other industries

\*Per cent of increase is based on figures in Table I, and a minus sign (--) denotes decrease.

It should be borne in mind, in considering this table, that the value of products in some of the industries involves a certain amount of duplication due to the use of the product of one establishment in the industry as material for another establishment.

In addition to the eighteen industries presented separately, there are seventeen industries each of which had a value of products in 1909 in excess of \$400,000. They are included under the head of "All Other Industries" in the table, because in some cases the operations of individual establishments would be disclosed if they were shown separately; in others, the returns do not properly present the true condition of the industry, for the reason that it is more or less interwoven with one or more industries of similar character, while for others comparable statistics for the different census years can not be presented without disclosing the operations of individual establishments or on account of changes in classification. These industries are: awnings, tents, and sails; beet sugar; cars, steam railroad, not including operations of railroad companies; cement; clothing, men's, including shirts; coffee and spice, roasting and grinding; coke; explosives; food preparations; iron and steel, blast furnaces; iron and steel; steel works and rolling mills; mineral and soda waters; petroleum, refining; smelting and refining, copper; smelting and refining, lead; smelting and refining, zinc; and sulphuric, nitric, and mixed acids. Statistics for petroleum refining, however, are presented in Table II for 1909.

The most important industries listed in the table given above, in which they are arranged in the order of the value of products, call for brief consideration.

Slaughtering and Meat-Packing.—This industry is the most important for which figures can be shown separately. It includes wholesale slaughtering and meat-packing establishments and those engaged in the manufacturing of sausage only. In 1904 it was fifth and in 1909 fourth in importance among the industries of the state when measured by value of products. In view of the fact that this industry showed a decrease of 23.5 per cent in value of products from 1899 to 1904, its growth from 1904 to 1909, 190.5 per cent, has been remarkable. In 1909 the industry gave employment to an average of 659 wage-earners, or 2.3 per cent of the total for all manufacturing industries, and the value of products, \$9.657,000, was 7.4 per cent of the total value of products for the state. The industry is largely confined to Denver and Pueblo.

Flour-Mill and Grist-Mill Products.—In 1909 there were seventy-seven establishments, an increase since 1904 of twenty-five, or 48.1 per cent, and an increase in value of products of \$2,085,000, or 36.1 per cent. From 1899 to 1904 the number of establishments increased three, or 6.1 per cent, and the value of products, \$1,342,000, or 30.2 per cent. Although these two periods

show great variation in percentage of increase in the number of establishments, the increases in value of products are nearly the same. As a rule, the mills are small and located in the rural districts. Because of the comparatively simple processes involved and the extent to which these processes are carried on by machinery, the value added by manufacture is not commensurate with the gross value of products or the number of establishments.

Printing and Publishing.—This classification includes bookbinding and blank-book making; engraving, steel and copper plate; lithographing; printing and publishing, book and job or music; and the printing and publishing of newspapers and periodicals. In 1909 there were 439 establishments reported under the combined classification, with a value of products of \$6,962,000, most of which was reported from the cities of over 10,000 inhabitants. Among the industries shown separately in the table, printing and publishing, measured by value of products, was third in importance in 1909, second in 1904, and fourth in 1899. Exclusive of two small establishments, the statistics for which cannot be shown without divulging individual operations, the number of establishments increased twenty, or 4.8 per cent, and the value of products \$1,495,000, or 27.3 per cent, from 1904 to 1909.

Cars and General Shop Construction and Repairs by Steam-Railroad Companies.—In 1909 there were twenty-nine establishments reported, which gave employment to an average of 3,993 wage-earners, or 14.2 per cent of the total for the manufacturing establishments of the state, and the largest average number of wage-earners reported for any of the industries shown separately. Although there was a decrease of five, or 14.7 per cent, in the number of establishments from 1904 to 1909, there was an increase in the average number of wage-earners of 941, or 30.8 per cent, and of \$1,300,000, or 24.7 per cent, in the value of products. The development of railroad repair shops in Colorado is the result of the heavy upkeep of rolling-stock in mountainous sections and of the establishment of many terminals within the state. The statistics do not include minor repairs made in roundhouses.

Foundry and Machine-Shop Products.—The fact that the number of establishments in this industry increased from eighty-four to 111 and the value of products from \$4,159,000 to \$5,907,000 during the decade, while the average number of wage-earners decreased from 1,875 to 1,813 during that time, indicates to some extent the perfection and growth of this industry in the state. The industry was really of greater importance in the state than is indicated by the statistics, as some machine shops manufactured a distinctive product and were assigned to other classifications.

Lumber and Timber Products.—Under this head are included statistics for logging and sawmill operations, for planing mills,

and for establishments engaged in the manufacture of wooden packing-boxes. The eastern part of the state is practically devoid of saw timber, so that the mills, which are generally small, are confined to the mountain districts. The number of establishments increased from 110 in 1904 to 263 in 1909, an increase of 153, or 139.1 per cent, and gave employment in 1909 to an average number of 2,190 wage-earners. The value of products increased \$1,688,000, or 67.6 per cent.

When measured by value added by manufacture, printing and publishing is of first importance among the industries listed in the table. Railroad repair shops and foundry and machine shops rank second and third, respectively, and are followed by the lumber and timber industry, the breweries, and the bakeries, in the order named. Slaughtering and meat-packing plants, and the flour- and grist-mills, which occupied first and second places in value of products, ranked below the foregoing industries with respect to value added by manufacture.

The table shows also the percentages of increase for these leading industries in respect to value of products and value added by manufacture. Slaughtering and meat-packing showed a greater rate of increase from 1904 to 1909 in value added by manufacture than any other of the specified industries; namely, 151.3 per cent. The same industry showed also the greatest increase for value of products, 190.5 per cent. The brick and tile, canning and preserving, butter, cheese, and condensed milk, and leather goods industries also showed remarkable increases both in gross value of products and in value added by manufacture.

Several industries show extensive fluctuations in respect to relative increases for the later five-year period, as compared with the earlier five years. None of the industries shown separately reports a decrease for both five-year periods. From 1904 to 1909 the manufacture of pottery, terra-cotta, and fire-clay products showed decreases in both value of products and value added by manufacture, this being the only industry showing a decrease in either item during this period. During the earlier five-year period, however, the slaughtering and meat-packing, marble and stone work, and foundry and machine-shop industries decreased in both items, the lumber and timber industry showed a decrease in value of products, and the malt-liquor industry a decrease in value added by manufacture during the five-year period 1899-1904.

### PERSONS ENGAGED IN MANUFACTURING INDUSTRIES

The following table shows for 1909 the distribution of the number of persons engaged in manufactures, the average number of wage-earners being distributed by sex and age. It should be borne in mind, however, that the sex and age classification of the average number of wage earners in this and other tables is an estimate obtained by the method described in the Introduction.

Persons
Engaged in Manufactures

CLASS	Fotal	Male	Female
ALL CLASSES	34,115	31,381	2,734
Proprietors and officials	3,009	2,906	103
Proprietors and firm members	1,722	1,634	88
Salaried officers of corporations	422	413	9
Superintendents and managers	865	859	6
Clerks	3, 039	2,518	521
Wage-earners (average number)	28, 067	25, 782	2,285
16 years of age and over	27, 915	25,646	2, 269
Under 16 years of age	152	136	16

The average number of persons engaged in manufactures during 1909 was 34,115, of whom 28,067 were wage earners. Of the remainder, 3,009 were proprietors and officials, and 3,039 clerks. Corresponding figures for individual industries will be found in Table II.

The following table shows for 1909 the percentage of proprietors and officials, clerks, and wage-earners, respectively, among the total number of persons employed in manufactures. It covers all industries combined and ten important industries individually.

Persons Engaged in Manufactures
Per Cent of Total

				Wage-
	~	Proprie-	•	earners
	Total	tors and	(	Average
INDUSTRY	Number	Officials	Clerks I	Number)
ALL INDUSTRIES	34, 115	8.8	8.9	82.3
Bread and other bakery products	1,325	22.1	10.8	67.1
Brick and tile	1,036	9.0	2.0	89.0
Butter, cheese, and condensed milk	304	14.8	16.1	69.1
Cars and general shop construction	n and			q
repairs by steam-railroad compa	nies 4,300	2.9	4.2	92.9
Flour-mill and grist-mill products	429	20.5	13.8	65.7
Foundry and machine-shop product	s 2,250	9.1	10.3	80.6
Liquors, malt	514	7.2	10.3	82.5
Lumber and timber products	2,614	13.1	3.1	83.8
Printing and publishing	3,747	15.8	21.1	63.1
Slaughtering and meat packing	831	3.5	17.5	79.0
All other industries	16,762	6.9	7.7	85.4

Of the total number of persons engaged in all manufacturing industries, 8.8 per cent were proprietors and officials, 8.9 per cent clerks, and 82.3 per cent wage-earners. In industries where the majority of the establishments are small and the work is to a large extent done by the proprietors or their immediate representatives, the proportion of persons engaged in the industries falling in the class of proprietors and officials is necessarily high. This condition is found in the bakeries, the flourand grist-mills, and in the printing and publishing establishments, for which the ratios of the proprietors and officals to the total number employed in the industries are 22.1 per cent, 20.5 per cent, and 15.8 per cent, respectively. Similar conditions prevail to some extent in the lumber and timber and the butter, cheese, and condensed-milk industries. The smallest proportion for this class, 2.9 per cent, is shown for railroad repair shops, and is due partly to the fact that the establishments in this industry are under corporate ownership, and so reported no proprietors; and partly to the fact that the highest officials of railroad companies, who exercise general supervision over them, are not, as a rule, assigned to this particular branch of the work.

The following table shows in percentages, for all industries combined, the distribution of the average number of wage-earners, by age periods and for those sixteen years of age and over by sex, calculated in the manner described in the Introduction. It also shows, for some of the important industries separately, a similar distribution of wage-earners as reported for December 15, or the nearest representative day. As a means of judging the importance of the several industries the average total number employed for the year is also given in each case.

Per	Con	t of	Tot	o 1
Per	wen	t or	TOU	all

		Wage-E	Carners	
		16	Years	Under
		of	Age	16
	Average	and	l Over	Years
INDUSTRY	Number	Male	Female	of Age
ALL INDUSTRIES	28, 067	91.4	8.1	0.5
Bread and other bakery products	889	71.2	27.1	1.7
Brick and tile	922	98.4	0.1	1.5
Butter, cheese, and condensed milk		77.6	22.4	• • •
Cars and general shop construction	and			
repairs by steam-railroad compani-	es 3,993	99.9	0.1	
Flour-mill and grist-mill products	282	99.6	<i>d</i> • • •	0.4
Foundry and machine-shop products	1,813	99.1	0,2	0.7
Liquors, malt	424	99.3		0.7
Lumber and timber products	2,190	98.9	1.0	0.1
Printing and publishing	2,366	81.6	16.0	2.4
Slaughtering and meat packing	659	95.9	2.1	2.0
All other industries	14, 319	88.8	11.0	0.2

For method of estimating the distribution, by sex and age periods, of the average number in all industries combined, see Introduction.

For all industries combined, 91.4 per cent of the average number of wage-earners was males sixteen years of age and over; 8.1 per cent, females sixteen years of age and over; and five-tenths of 1 per cent, persons under the age of sixteen. general, the table shows a very limited employment of women and children. The largest proportions of women employees were in the bakeries, creameries, and the printing and publishing establishments, and the largest proportions of children in the printing and publishing and the slaughtering and meat-packing establishments. Of the total of 2,269 female wage-earners in all industries combined, about one-tenth were employed in bakeries. Of the total number of wage-earners in all industries under sixteen years of age, over one-third were in printing and publishing establishments. With these two industries omitted, the females sixteen years of age and over in all industries combined would represent 5.9 per cent of the total number of wage-earners. and children under sixteen years of age, but three-tenths of 1 per cent.

In order to compare the distribution of persons engaged in manufactures in 1909 with that shown at the census of 1904, it is necessary to use the classification employed at the earlier census. (See Introduction.) The following table makes this comparison according to occupational status:

### PERSONS ENGAGED IN MANUFACTURES

		1909		1904	1909	
CLASS	Number	Per Cent Distribution	Number	Per Cent Distribution	Per Cent of	Increase, 1904-1909
Total	, ,	100.0	25, SSS	100.0	14	31.8
Proprietors and firm members	. 1,722	5.0	1, 398	5.4		23.2
Salaried employes	4,326	12.7	2,677	10.3		61.6
Wage-earners (average number)	.28, 067	82.3	21,813	84.3		28.7

Comparable figures are not obtainable for 1899. The table shows a much greater percentage of increase in the salaried employes than in the other two classes. There was, however, no very great change from 1904 to 1909 in the proportion of persons engaged in manufactures who were in each class.

The following table shows the average number of wage-earners, distributed according to age periods, and in the case of those sixteen years of age and over according to sex, for 1909, 1904, and 1899. The averages for 1909 are estimated on the basis of the actual number reported for a single representative day. (See Introduction.)

AVER	ACE NUMBER	OF WAGE.	EARNERS

	4 1 1	Dittion I.	0 1/11/13/10	01 11210	11 111111	111100			
		1909	1	.904		1899			
CLASS	Number	Per Cent Distribution	Number	Per Cent Distribution	Number	Per Cent Distribution			
Total28	, 067	100.0	21,813	100.0	19, 498	100.	0		
16 years of age and over27	, 915	99.5	21,507	98.6	19, 295	99.	0		
Male	6,646	91.4	20, 164	92.4	18, 214	93.	4		
Female 2	, 269	8.1	1,343	6.2	1,081	5.	5		
Under 16 years of age	152	0.5	306	1.4	203	1.	0		

This table indicates that for all industries combined there has been a decrease during the ten years in the employment of

children under sixteen years of age, although from 1899 to 1904 the total number of children employed increased. The number of female wage-earners more than doubled between 1899 and 1909 and their proportion of the total number of wage-earners increased materially. In 1909 males sixteen years of age and over formed 91.4 per cent of all wage-earners, as compared with 92.4 per cent in 1904 and 93.4 per cent in 1899.

### WAGE-EARNERS EMPLOYED BY MONTHS

The following table gives the number of wage-earners employed on the fifteenth of each month during the year 1909 for all industries combined, for the beet-sugar industry, and for all other industries combined; it gives also the percentage which the number reported for each month is of the greatest number reported for any month. In Table II is shown, for practically all of the important industries of the state, the largest number and also the smallest number of wage-earners reported for any month. The figures are for the fifteenth day, or the nearest representative day, of the month.

### WAGE-EARNERS

	All Inc	dustries	Beet	Sugar	,	All Other Industries				
MONTH	Number	Per Cent of Maximum	Number	Per Cent of Maximum	Number	Per Cent of Maximum				
January	. 27, 962	87.2	3, 113	60.7	24,849	91.3				
February	25, 181	78.6	615	12.0	24,566	90.3				
March	25, 374	79.2	727	14.2	24,647	90.6				
April	25, 531	79.7	765	14.9	24,766	91.0				
May	. 25,835	80.6	729	14.2	25, 106	92.3				
June	27, 059	84.4	763	14.9	26, 296	96.6				
July	. 28, 099	87.7	886	17.3	27, 213	100.0				
August	. 28, 238	88.1	1,160	22.6	27,078	99.5				
September	. 28, 415	88.7	1,272	24.8	27, 143	99.7				
October	. 31,026	96.8	4, 127	80.5	26,899	98.8				
November		100.0	5, 125	100.0	26, 925	98.9				
December	. 32, 034	100.0	4,963	96.8	27, 071	99.5				

The beet-sugar industry is the only seasonal industry of importance in the state. The usual period during which the factories run continuously is from sixty to 100 days, during

which time the industry employs a sufficiently large number of wage-earners to affect considerably the total movement of employment in the state during the year. In this industry the smallest number, 615, was employed in February and the largest number, 5,125, in November. During each month from February through September the number employed represented only from 12 to 24.8 per cent of the number employed in November. Several other industries are slightly seasonal, but fluctuations in employment are not sufficient to greatly influence the steadiness of total employment for all industries. For all industries combined the number of wage-earners employed changed but little, there being a gradual increase from February until November, when the sugar factories were at the height of their production.

### PREVAILING HOURS OF LABOR

In the following table wage-earners have been classified according to hours of labor prevailing in the establishments in which they are employed. In making this classification the average number of wage-earners employed during the year is used, and the number employed in each establishment is classified as a total according to the hours prevailing in that establishment, even though some few employes work a greater or less number of hours.

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Ave	
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_	. 0								DI	LIN.	17 1 <sub>2</sub> 3		KEL	Oit	1									
ing			Over 72	1,020	Ç.)	:	г	•		:	2	:	:	:	140	:	:	:	:	:	:	:	•	875
d Accordi			72	2,198	11	:	:	:		•	:	63	:	:	29	:	:	:	:	:	•	•	:	2, 156
ents Groupe	r Week	Between	60 and 72	3, 213	21.	:	102	l~		2, 222	57	17	23	:	7	:	:	41	•	:	10	:	:	705
stablishm	Work Per Week		09	8,211	505	524	39	436		726	160	172	349	20	c)	şe Se	50	1,437	20	131	39	372	24	3,108
verage Number of Wage-Earners in Establishments Grouped According	Hours of	Between	54 and 60	3, 588	178	40	63	ಣ		100	144	16	∞	•	89	20	59	2.2	:	:	308	:	:	2,615
Wage-E	to Prevailing		54	3,463	83	30	09	†61		263	19	10	606	30	9	165	47	161	$\vdash$	7.5	173	287	ಽಾ	1,115
Number of	to 1	Between	48 and 54	1,787	1		:	:		682	•	:	9553 953	•	:	<del>-  </del>	•	306	14	:	L	:	:	350
Average		48 and	under	1,587	88	328	9	48		i	15	11	171	121	771	2.5	259	218	202	11	1,759	:	400	924
	INDUSTRY		Total	ALL INDUSTRIES28,067	Bread and other bakery products 889	Brick and tile 922	Butter, cheese, and condensed milk 210	Canning and preserving 518	Cars and general shop construction and repairs	by steam-railroad companies 3,993	Confectionery 349	Flour-mill and grist-mill products 282	Foundry and machine-shop products 1,813	Furniture and refrigerators	Ice, manufactured 251	Leather goods 269	Liquors, malt 424	Lumber and timber products 2,190	Marble and stone work 267	Pottery, terra-cotta, and fire-clay products 214	Printing and publishing 2,366	Slaughtering and meat-packing659	Tobacco manufactures 427	All other industries11,848

It is evident from these figures that for more than one-half of the wage-earners employed in the manufacturing industries of Colorado the prevailing hours of labor range from fifty-four to sixty a week, or from nine to ten a day. Of the total number of wage-earners, 22.7 per cent are employed in establishments where the prevailing hours are less than nine a day and 22.9 per cent are employed in establishments where the prevailing hours are more than ten hours a day. It will be noticed that in the case of railroad repair shops, which report a larger number of employes than any of the other industries shown separately, most of the wage-earners work where the prevailing hours range from sixty to seventy-two a week. In the printing and publishing industry the greater number of wage-earners work forty-eight hours per week or less.

### LOCATION OF ESTABLISHMENTS

The next table shows the extent to which the manufactures of Colorado are centralized in cities of 10,000 population or over. (See Introduction.) The statistics for 1904 are omitted from this table, because there was no census of population for that year, and it was impossible to determine the cities that came within the group having over 10,000 inhabitants.

In 1909, 44.2 per cent of the total value of products was reported from the cities having over 10,000 inhabitants and 55.6 per cent from the remainder of the state. In spite of the addition of Trinidad to this group of cities in 1909, and the marked growth of the establishments located in Denver, the change in the grouping of Cripple Creek and Leadville which fell from over 10,000 inhabitants in 1900 to less than 10,000 inhabitants in 1910, and from the city group to the districts outside during the decade, has caused the city group to be overtaken by the outside districts in respect to the relative importance of their manufacturing industries, as judged by number of establishments, value of products, or value added by manufacture. number of wage-earners alone do the industries of the cities remain the most important; although the cities contain only 37.2 per cent of the population of the state, they employ 50.3 per cent of the wage-earners. Even in this respect, however, the importance of their industries has been declining, as in 1899 the percentage of wage-earners in cities having more than 10,000 inhabitants was 56.9 and in 1909, 54.7. That the manufacturing industries outside of these cities show a more rapid growth than do those of the cities is also due in part to the development of the beet-sugar industry, in which all the establishments reported are located outside of the cities in question, and in part to the growth of various industries in the mining districts.

			Loca	tion of	Per Cent. of				
			Establi	shments	To	tal			
			In cities		In cities	In cities .			
			with		with				
			population		population				
			of 10,000	Outside	of 10,000	Outside			
ITEM	Year	Total	and over	districts	and over	districts			
Population	1910	799, 024	297, 058	501,966	37.2	62.8			
	1900	539, 700	205, 703	333, 997	38.1	61.9			
Number of estab-	1909	2,034	949	1,085	46.7	53. <b>3</b>			
lishments	1899	1,323	746	577	56.4	43.6			
Average number	1909	28, 067	14, 114	13,953	50.3	49.7			
of wage earners	1899	19, 498	11,093	8,405	56.9	43.1			
Value of products	1909	\$130,044,312	\$57, 430, 448	\$72,613,864	44.2	55.8			
	1899	89, 067, 879	46, 514, 613	42, 553, 266	52.2	47.8			
Value added by	1909	49, 553, 408	23, 872, 383	25, 681, 025	48.2	51.8			
manufacture	1899	28, 317, 095	15, 989, 943	12, 327, 152	56.5	43.5			

The four cities in Colorado having a population of 10,000 and over in 1910 were Denver, Pueblo, Colorado Springs, and Trinidad. Prior to 1910 Trinidad had less than 10,000 inhabitants, so was not included in the city group for 1900.

The following statement shows general statistics for 1909 and 1899 for Cripple Creek and Leadville, which had a population in 1900 in excess of 10,000, but which fell below this figure in 1910, and therefore were not included in the city group for the later year in the preceding table.

			Cripple
ITEM	Year	Leadville	Creek
Population	1910	7,508	6,206
	1900	12, 455	10,147
Number of establishments	1909	20	9
	1899	34	35
Average number of wage-earners	1909	650	40
	1899	1, 227	167
Value of products	1909	\$4,477,746	\$117,723
·	1899	5,882,949	440,659
Value added by manufacture	1909	1,065,526	74, 267
	1899	1,042,783	265, 491

The manufactures of both of the cities shown in this table are largely dependent upon the mining interests. In Cripple Creek each of the industries reported in 1904 and in 1909 shows

a decrease at the later census, and several industries, among which are foundry and machine-shop products, disappear altogether. During the decade 1899-1909 the total number of establishments decreased from thirty-five to nine, the average number of wage-earners from 167 to forty, the value of products from \$440,659 to \$117,723, and the value added by manufacture from \$265,491 to \$74,267. In Leadville the decreases in number of establishments, value of products, and average number of wage earners, although large, were less pronounced. During the decade 1899-1909 the number of establishments decreased from thirty-four to twenty, the average number of wage-earners from 1,227 to 650, the value of products from \$5,882,949 to \$4,477,746. The value added by manufacture, however, shows a slight increase, from \$1,042,783 to \$1,065,526. The smelting and refining of lead is the chief manufacturing industry in the city.

The population for 1910 and 1900 of the four cities which had 10,000 inhabitants or over in 1910, and of the two cities which had 10,000 or over in 1900, but less than 10,000 in 1910, is given in the following tabular statement:

	Popu	lation
CITY	1910	1900
Denver	213, 381	133,859
Pueblo	44,395	28, 157
Colorado Springs	29,078	21,085
Trinidad	10, 204	*5, 345
Leadville	†7,508	12, 455
Cripple Creek	±6. 206	10 147

<sup>\*</sup>Population less than 10,000 in 1900, therefore, in the preceding table, the statistics for 1899 are included with those for the districts outside cities.

The relative importance of each of the four cities having a population of 10,000 or over in 1910 is shown in the following table, in which the value of products and average number of wage-earners are shown separately for Denver, Pueblo, and Colorado Springs for 1909, 1904, and 1899, and for Trinidad for 1909:

<sup>†</sup>Population less than 10,000 in 1910, therefore, in the preceding table, the statistics for 1909 are included with those for the districts outside cities.

Average Number of
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	W	age-Earn	ers	Va	Value of Products		
CITY	1909	1904	1899	1909	1904	1899	
Denver	12,058	9,672	8,500	\$51,538,547	\$36,660,410	\$37,906,171	
Pueblo	1,320	941	790	3, 344, 789	2, 197, 293	1,439,609	
Colorado Spring	s 516	410	409	1,732,759	1,100,771	845, 225	
Trinidad	220	*	*	814, 353	*	*	

<sup>\*</sup>Population less than 10,000 in 1900.

Denver, Pueblo, and Colorado Springs all show increases in the average number of wage-earners and in the value of products both from 1899 to 1904 and from 1904 to 1909, except that the value of products manufactured in Denver decreased from 1899 to 1904. The increases were generally greater from 1904 to 1909 than during the earlier period.

Denver, the largest and most important city in the state, shows an increase in 1909, as compared with 1904, of \$14,878,-137, or 40.6 per cent, in the value of products, and of 2,386, or 24.7 per cent, in the average number of wage-earners. Forty-three per cent of all wage-earners reported for the state were employed in this city.

The leading industries in Denver in 1909 were slaughtering and meat-packing, smelting and refining of lead and of copper, printing and publishing, foundries and machine shops, steam railroad repair shops, bakeries, breweries, and manufacture of butter, cheese, and condensed milk, and flour- and grist-mills, each of which had a value of products in excess of \$1,000,000. For many of the minor industries of the state, Denver reported all of the establishments.

The most important industries within the city limits of Pueblo are the railroad repair shops, and printing and publishing; those of Colorado Springs are printing and publishing, and butter-making; and those of Trinidad, breweries.

### CHARACTER OF OWNERSHIP

The table that follows has for its purpose the presentation of conditions in respect to the character of ownership, or legal organization, of manufacturing enterprises. For all industries combined comparative figures are given covering the censuses of 1909 and 1904. Comparative data for 1899 are not available. Figures for 1909 only are presented for several important industries individually. In order to avoid disclosing the operations of individual concerns it is necessary to omit several important industries from this and the table following.

	Num-			
	ber of	Average		Value
	Estab-	Number		Added
INDUSTRY AND	lish-	of Wage-	Value of	by Manu-
CHARACTER OF OWNERSHIP	ments	Earners	Products	facture
ALL INDUSTRIES—				
1909	. 2,034	28,067	\$130,044,312	\$49,553,408
1904	. 1,606	21,813	100, 143, 999	37, 029, 602
Individual—				
1909	. 987	2,539	8, 104, 923	4, 499, 519
1904	. 886	2,586	7,794,408	4, 542, 091
Firm—				
1909	. 333	1, 355	4, 772, 280	2, 828, 216
1904	. 236	1,045	2,896,013	1,751,143
Corporation—				
1909	. 698	24, 152	116, 991, 543	42, 158, 021
1904	. 478	18, 169	89, 377, 091	30, 677, 368
Other—				
1909	. 16	21	175, 566	67, 652
1904	. 6	13	76, 487	59,000
Per cent of total—				
1909	. 100.0	100.0	100.0	100.0
1904	. 100.0	100.0	100.0	100.0
Individual—				
1909	. 48.5	9.0	6.2	9.1
1904	. 55.2	11.9	7.8	12.3
Firm—				
1909	. 16.4	4.8	3.7	5.7
1904	. 11.7	4.8	2.9	4.7
Corporation—				
1909	31.3	86.1	90.0	85.1
1904	. 29.8	83.3	89.2	82.8
Other—				
1909	. 0.8	0.1	0.1	0.1
1904	. 0.4	0.1	0.1	0.2
Bread and other bakery products, 1909.	. 250	889	\$ 3,968,760	\$ 1,671,752

Num-

	ber of	Average		Value
	Estab-	Number		Added
INDUSTRY AND	lish-	of Wage-	Value of	by Manu-
CHARACTER OF OWNERSHIP	ments	Earners	Products	facture
Individual	. 188	313	1,521,651	680,734
'Firm	. 40	61	355,002	148,756
Corporation	22	515	2, 092, 107	842, 262
Per cent of total	. 100.0	100.0	100.0	100.0
Individual	. 75.2	35, 2	38.3	40.7
Firm	. 16.0	6.9	8.9	8.9
Corporation	. 8.8	57.9	52.7	50.4
Brick and tile, 1909	. 69	922	\$ 1,670,042	\$ 1,158,639
Individual	. 26	126	177,726	142,586
Firm	. 10	57	70, 470	56, 279
Corporation	. 33	739	1,421,846	959, 774
Per cent of total	. 100.0	100.0	100.0	100.0
Individual	. 37.7	13.7	10.6	12.3
Firm	. 14.5	6.2	4.2	4.9
Corporation	. 47.8	80.2	85.1	82.8
Butter, cheese, and condensed milk,	,			
1909	. 39	210	\$ 2,339,765	\$ 416,163
Individual	. 15	48	649, 221	90, 724
Firm	. 5	13	81,154	17,761
Corporation	. 10	138	1,514,069	292, 191
Other	. 9	11	95,321	15, 487
Per cent of total	. 100.0	100.0	100.0	100.0
Individual	. 38.5	22.9	27.7	21.8
Firm	. 12.8	6.2	3.5	4.3
Corporation	. 25.6	65.7	64.7	70.2
Other	. 23.1	5.2	4.1	3.7
Flour-mill and grist-mill products, 190	9 77	282	\$ 7,867,706	<b>\$</b> 1,195,392
Individual	. 15	12	303, 675	53, 129
Firm	. 11	15	357, 286	85,114
Corporation	. 48	255	7, 206, 745	1, 057, 149

' Num-

	ber of	Average		Value
	Estab-	Number		Added
INDUSTRY AND	lish-	of Wage-	Value of	by Manu-
CHARACTER OF OWNERSHIP	ments	Earners	Products	facture
Per cent of total	100.0	100.0	100.0	100.0
Individual	19.5	4.3	3.9	4.4
Firm	18.2	5.3	4.5	7.1
Corporation	62.3	90.4	91.6	88.4
Foundry and machine-shop products,				
1909	111	1,813	\$ 5,906,595	\$ 3,102,635
Individual	38	173	641,931	300,777
Firm	17	111	303, 695	176, 551
Corporation	56	1,529	4,960,969	2, 625, 307
Per cent of total	100.0	100.0	100.0	100.0
Individual	34.2	9.5	10.9	9.7
Firm	15.3	6.1	5.1	5.7
Corporation	50.4	\$4.3	84.0	84:6
Lumber and timber products, 1909	263	2, 190	\$ 4,184,864	\$ 2,788,905
Individual	133	535	1,067,967	756,654
Firm	59	264	434, 529	334, 208
Corporation	71	1,391	2, 682, 368	1,698,043
	100.0			
Per cent of total		160.0	100.0	100.0
Individual		24.4	25.5	27.1
Firm		12.1	10.4	12.0
Corporation	27.0	63.5	64.1	60.9
Printing and publishing, 1909	439	2, 366	\$ 6,961,721	\$ 5,155,609
Individual	253	480	1, 275, 015	1,023,225
Firm	64	171	396,552	312,011
Corporation	116	1,715	5, 244, 351	3, 774, 970
Other	6		45,803	45, 403
Per cent of total	100.0	100.0	100.0	100.0
Individual	57.6	20.3	18.3	19.8
Firm	14.6	7.2	5.7	6.1
Corporation	26.4	72.5	75.3	73.2
Other	1.4		.7	.9

The most important distinction shown is that between corporate and all other forms of ownership. In 1909, for all industries combined, 34.3 per cent of the total number of establishments were under corporate ownership, as against 65.7 per cent for all other forms. The corresponding figures for 1904 were 29.8 per cent and 70.3 per cent, respectively. In respect to value of products the corresponding proportions are reversed. In 1909 the establishments operated by corporations reported 90 per cent of the total value of products, as against 10 per cent for those under all other forms of ownership, while in 1904 the corresponding figures were 89.2 per cent and 10.8 per cent. respectively. Establishments under individual ownership decreased for all items in percentages of distribution, while those under firm ownership increased in percentages of distribution in number of establishments, value of products, and value added by manufacture.

### SIZE OF ESTABLISHMENT

The tendency for manufacturing to become concentrated in large establishments, or the reverse, is a matter of interest from the standpoint of industrial organization. In order to throw some light upon it, the following table groups the establishments according to the value of their products. The table also shows the average size of establishments for all industries combined and for important industries separately, as measured by number of wage-earners, value of products, and value added by manufacture. The totals for all industries are shown for the last two censuses, while for certain important industries figures are given for 1909 only.

	Num-			
	ber of	Average		Value
	Estab-	Number		Added
INDUSTRY AND	lish-	of Wage-	Value of	by Manu-
VALUE OF PRODUCTS	ments	Earners	Products	facture
ALL INDUSTRIES—				
1909	. 2,034	28,067	\$130, 044, 312	\$49, 553, 408
1904	. 1,606	21,813	100, 143, 999	37, 029, 602
Les than \$5,000—				
1909	. 760	731	1,862,931	1, 257, 050
1904	. 627	644	1,629,067	. 1,137,197
\$5,000 and less than \$20,000—				
1909	. 748	2,885	7,504,776	4,692,917
1904	. 575	2, 294	5,712,975	3, 730, 117
\$20,000 and less than \$100,000—				
1909	. 351	4,632	14, 497, 582	7,938,415
1904	. 272	3,970	11, 250, 852	6, 322, 999

	Num-			
	ber of	Average		Value
	Estab-	Number		Added
INDUSTRY AND	lish-	of Wage-	Value of	by Manu-
VALUE OF PRODUCTS	ments	Earners	Products	facture
\$100,000 and less than \$1,000,000—				
1909	. 155	11,914	47, 533, 323	20, 433, 582
1904	. 116	9, 309	30, 880, 642	14, 811, 848
\$1,000,000 and over—				
1909	. 20	7, 905	58,645,700	15, 231, 444
1904	. 16	5,596	50, 670, 463	11, 027, 441
Per cent of total—				
1909	. 100.0	100.0	100.0	100.0
1904	. 100.0	100.0	100.0	100.0
Less than \$5,000—				
1909	. 37,4	2.6	1.4	2.5
1904	. 39.0	3.0	1.6	3.1
\$5,000 and less than \$20,000—				
1909	. 36.8	10.3	5.8	9.5
1904	. 35.8	10.5	5.7	10.1
\$20,000 and less than \$100,000—				
1909	. 17.3	16.5	11.1	16.0
1904	. 16.9	18.2	11.2	17.1
\$100,000 and less than \$1,000,000—				
1909		42.4	36.6	41.2
1904	. 7.2	42.7	30.8	40.0
\$1,000,000 and over—				
1909	. 1.0	28.2	45.1	30.7
1904	. 1.0	25.7	50.6	29.8
Average per establishment-				
1909		14	\$ 63,935	\$ 24,363
1904		14	62, 356	23, 057
Bread and other bakery products, 1909	. 250	889	\$ 3,968,760	\$ 1,671,752
Less than \$5,000	. 103	43	286, 748	126, 509
\$5,000 and less than \$20,000	. 117	233	1, 115, 805	505, 074
\$20,000 and less than \$100,000	. 25	201	919, 499	396, 224
\$100,000 and less than \$1,000,000	. 5	412	1,646,708	643, 945

AT			
N	ш	$\mathbf{m}$	-

	ber of	Average		Value
	Estab-	Number		Added
INDUSTRY AND	lish-	of Wage-	Value of	by Manu-
VALUE OF PRODUCTS	ments	Earners	Products	facture
Per cent of total	. 100.0	100.0	100.0	100.0
Less than \$5,000	. 41.2	4.8	7.2	7.6
\$5,000 and less than \$20,000	. 46.8	26.2	28.1	30.2
\$20,000 and less than \$100,000	. 10.0	22.6	23.2	23.7
\$100,000 and less than \$1,000,000	. 2.0	46.3	41.5	38.5
Average per establishment		4	\$ 15,875	\$ 6,687
Brick and tile, 1909	. 69	922	\$ 1,670,042	\$ 1,158,639
Less than \$5,000	. 20	50	61, 229	49, 556
\$5,000 and less than \$20,000	. 30	207	305,851	239, 287
\$20,000 and less than \$100,000*	. 19	665	1, 302, 962	869,796
Per cent of total	. 100.0	100.0	100.0	100.0
Less than \$5,000	. 29.0	5.4	3.7	4.3
\$5,000 and less than \$20,000	. 43.5	22.5	18.3	20.7
\$20,000 and less than \$100,000	. 27.5	72.1	78.0	75.0
Average per establishment	• ••••	13	\$ 24,204	\$ 16,792
Butter, cheese, and condensed milk	,			
1909	. 39	210	\$ 2,339,765	\$ 416, 163
Less than \$5,000	. 11	7	29, 565	7,564
\$5,000 and less than \$20,000	. 13	20	143,860	30, 151
\$20,000 and less than \$100,000	. 9	24	292, 778	57, 231
\$100,000 and less than \$1,000,000	. 6	159	1, 873, 562	321, 217
Per cent of total	. 100.0	100.0	100.0	100.0
Less than \$5,000	. 28.2	3.4	1.3	4.2
\$5,000 and less than \$20,000	. 33.3	9.5	6.1	7.1
\$20,000 and less than \$100,000	. 23.1	11.4	12.5	13.4
\$100,000 and less than \$1,000,000	. 15.4	75.7	80.1	75.3
Average per establishment		5	\$ 59,994	\$ 10,671
Flour-mill and grist-mill products, 190	9 77	282	\$ 7,867,706	\$ 1,195,392
Less than \$5,000	. 14	8	39, 952	8,171
\$5,000 and less than \$20,000	. 21	18	239,572	46, 368
\$20,000 and less than \$100,000	. 24	66	1, 136, 356	224, 601
\$100,000 and less than \$1,000,000	. 18	190	6, 451, 826	916, 252

Num-

	ber of	Average			7	Value
	Estab-	Number			A	Added
INDUSTRY AND	lish-	of Wage-	V	alue of	рх	Manu-
VALUE OF PRODUCTS	ments	Earners	Pı	roducts	fa	acture
Per cent of total	. 100.0	100.0		100.0		100.0
Less than \$5,000	18.2	2.8		0.5		0.7
\$5,000 and less than \$20,000	27.3	6.4		3.0		3.9
\$20,000 and less than \$100,000	31.1	23.4		14.5		18.8
\$100,000 and less than \$1,000,000	23.4	67.4		82.0		76.6
Average per establishment		4	\$	102,178	\$	15, 525
Foundry and machine-shop products,						
1909	111	1,813	\$	5, 906, 595	\$ 3	, 102, 635
Less than \$5,000	21	23		63, 185		43,636
\$5,000 and less than \$20,000	37	146		351,719		236, 204
\$20,000 and less than \$100,000	36	569		1,690,993		922, 924
\$100,000 and less than \$1,000,000	17	1,075		3, 800, 698	1	, \$99, \$71
Per cent of total		100.0		100.0		100.0
Less than \$5,000		1.3		1.1		1.4
\$5,000 and less than \$20,000		8.0		6.0		7.6
\$20,000 and less than \$100,000		31.4		28.6		29.7
\$100,000 and less than \$1,000,000		59.3		64.3		61.3
Average per establishment		16	\$	53, 213	\$	27, 952
Lumber and timber products, 1500	263	2, 190	\$	4, 184, 864	\$ 2	, 788, 905
· Less than \$5,000	107	155		224,862		176,638
\$5,000 and less than \$20,000	111	669		1, 219, 195		850, 591
\$20,000 and less than \$100,000	37	530		1, 332, 738		864, 428
\$100,000 and less than \$1,000,000	8	836		1,408,069		897, 248
Per cent of total	100.0	100.0		100.0		100.0
Less than \$5,000	40.7	7.1		5.4		6.3
\$5,000 and less than \$20,000	42.7	30.5		29.1		30.5
\$20,000 and less than \$160,000	14.1	24.2		31.8		31.0
\$100,000 and less than \$1,000,000	3.0	38.2		33.7		32.2
Average per establishment		8	\$	15,912	\$	10,604

	Num-			
	ber of	Average		Value
	Estab-	Number		Added
INDUSTRY AND	lish-	of Wage-	Value of	by Manu-
VALUE OF PRODUCTS	ments	Earners	Products	facture
Printing and publishing, 1909	439	2,366	\$ 6,961,721	\$ 5,009,072
Less than \$5,000	242	245	607, 125	490,769
\$5,000 and less than \$20,000	140	498	1, 295, 515	1,051,127
\$20,000 and less than \$100,000	44	541	1,664,825	1, 155, 791
\$100,000 and less than \$1,000,000	. 13	1,082	3, 394, 256	2, 311, 385
Per cent of total	100.0	100.0	100.0	100.0
Less than \$5,000	55.1	10.4	8.7	9.8
\$5,000 and less than \$20,000	31.9	21.0	18.6	21.0
\$20,000 and less than \$100,000	10.0	22.9	23.9	23.1
\$100,000 and less than \$1,000,000	3.0	45.7	48.8	46.1
Average per establishment		5	\$ 15,858	\$ 11,410

<sup>\*</sup>Includes the group "\$100,000 and less than \$1,000,000."

This table shows that, in 1909, of the 2,034 establishments only twenty, or 1 per cent, had a value of product exceeding \$1,000,000. These twenty establishments, however, employed 7,905 wage-earners, or 28.2 per cent of the total for all establishments, and reported 45.1 per cent of the total value of products, and 30.7 per cent of the total value added by manufacture. The corresponding percentages for 1904 were 25.7, 50.6, and 29.8, respectively. It is interesting to note that this group, which showed increased percentages in average number of wage earners and value added by manufacture for 1909, as compared with 1904, showed a decrease in its percentage of the total value of products.

On the other hand, the very small establishments—that is, those having a value of products of less than \$5,000—constituted in 1909 a large proportion (37.4 per cent) of the total number of establishments, but the value of their products amounted to only 1.4 per cent of the total. There has been a decrease in the relative importance of this group since 1904. Approximately 82 per cent of the total value of products was reported from establishments having products valued at not less than \$100,000.

While the average number of wage-earners per establishment remained constant during the five-year period, the average value of products per establishment increased from \$62,356 in 1904 to \$63,935 in 1909, and the average value added by manufacture from \$23,057 to \$24,363. The increased values shown

may be, and probably are, due wholly or in part to the increase that has taken place in the prices of commodities. Of the industries shown separately only the flour and grist mills show an average value of products per establishment in excess of \$100,000.

In some respects, and especially from the standpoint of conditions under which persons engaged in manufactures work, the best classification of establishments to bring out the feature of size is a classification according to the number of wage-earners employed. The next table shows for 1909 such a classification for all industries combined and for ten important industries individually, and gives not only the number of establishments falling in each group but also the average number of wage-earners employed.

## ESTABLISHMENTS EMPLOYING-

Over 1,000

501 to 1,000

251 to 500

21 to 50

6 to 20

1 to 5

		No Wage-	Wage-	Wage-	Wage-	Wage-	Wage-	Wage-	Wage-	Wage-
INDUSTRY	Total	Earners	Earners	Earners	Earners	Earners	Earners	Earners	Earners	Earners
ALL INDUSTRIES22,	.22,034	323	1,119	394	84	63	33	15	ଚୀ	H
Bread and other bakery products	250	67	161	16	63	61	c1	:	:	+) + + +
Butter, cheese, and condensed milk	33	/ <del>ব</del> দ	28	ıo		$\vdash$	:	0 0 0 0		:
Brick and tile	69	•	34	. 92	-	↔	П	•	:	•
Cars and general shop construction and										
repairs by steam-railroad companies	29	•	10	ro	ro.	೧೨	10	ಬ	1	•
Flour-mill and grist-mill products	2.2	12	20	15	0 0 0** 0		•	•	:	•
Foundry and machine-shop products	111	9	48	33	12	10	7	•	0 0 0 0	*
Liquors, malt	11	•	63	ಣ		ıa.	•	o o o	•	
Lumber and timber products	263	15	149	82	∞	, es	,c3	I	•	•
Printing and publishing	439	118	246	57	6	ಬ	4	:	•	
Slaughtering and meat packing	13	2	ಣ	೧೨		67	1	Η	•	
All other industries	733	66	393	146	38	31	. 91	∞		

## AVERAGE NUMBER OF WAGE-EARNERS

## ESTABLISHMENTS EMPLOYING—

								501 to	Over
		1 to 5	6 to 20	21 to 50	51 to 100	100 to 250	251 to 500	1,000	1,000
	No Wage- Wage-	Wage-	Wage-	Wage-	Wage-	Wage-	Wage-	Wage-	Wage-
INDUSTRY	Earners	Earners	<b>Earners</b>	Earners	Earners	Earners	Earners	Earners Earners	Earners
ALL INDUSTRIES28,067	•	9, 543	4,316	2,488	4,451	5, 383	5,504	1,227	2, 152
Bread and other bakery products 889	:	308	148	99	160	207		:	•
Butter, cheese, and condensed milk 210			89	61	2.6	•	•	•	•
Brick and tile 922	•	108	305	214	62	236		•	•
Cars and general shop construction and									
repairs by steam-railroad companies 3,993	•	12	99	165	231	818	2,001	299	•
Flour-mill and grist-mill products 282		101	181	:	:	:	:	:	•
Foundry and machine-shop products 1,813	•	141	379	342	644	307	:	•	
Liquors, malt 424	0 0 0	අ	덎	24	329	:	:	:	•
Lumber and timber products 2,190	0 0 0	349	837	222	220	231	591	:	•
Printing and publishing 2,366	0 0 0	240	595	596	326	609	•	*	*
Slaughtering and meat packing 659		10	017		120	184	282	•	•
All other industries14,319	0 0 0	927	1,655	1,091	2, 283	2,761	2,890	260	2,152

### EXPENSES

As stated in the Introduction, the census does not purport to furnish figures that can be used for determining the cost of manufacture and profits. Facts of interest can, however, be brought out concerning the relative importance of the different classes of expenses which make up the total. The following table shows in percentages the distribution of expenses among the classes indicated for all industries combined and for certain important industries separately. The figures on which the percentages are based appear in Table II.

Per Cent of
Total Expenses Reported

				Miscel-
			Ma-	laneous
INDUSTRY	Salaries	Wages	terials	Expenses
ALL INDUSTRIES	. 4.9	17.4	70.2	7.5
Bread and other bakery products	. 4.8	16.6	68.2	10.4
Brick and tile	. 5.9	46.9	37.6	9.6
Butter, cheese, and condensed milk	. 3.0	5.8	85.9	5.3
Cars and general shop construction and re	-			
pairs by steam-railroad companies	. 5.6	52.0	39.8	2.6
Flour-mill and grist-mill products	. 1.8	3.0	91.6	3.6
Foundry and machine-shop products	. 10.4	24.6	54.0	11.0
Liquors, malt	. 7.2	12.9	33.6	46.3
Lumber and timber products	. 4.9	41.9	40.3	12.9
Printing and publishing	. 18.5	30.6	30.3	20.6
Slaughtering and meat packing	. 2.3	4.2	89.7	3.8
All other products	. 3.9	14.4	76.2	5.5

This table shows that, for all industries combined, 70.2 per cent of the total expense was incurred for materials, 22.3 per cent for services—that is, salaries and wages—and but 7.5 per cent for other purposes. As would be expected, these proportions vary greatly in the different industries. The very large miscellaneous expense shown for the malt-liquor industry is due to the inclusion of internal-revenue taxes. The labor cost in the industries manufacturing food products is relatively low.

### ENGINES AND POWER

The following table shows, for all industries combined, the number of engines or other motors, according to their character, employed in generating power (including electric motors operated by purchased current) and their total horse-power at the

censuses of 1909, 1904, and 1899. It also shows separately the number and horse-power of electric motors, including those operated by current generated in the manufacturing establishments.

The table indicates that the increase in owned primary power was in that generated by steam and gas engines and water motors, that generated by water wheels and the forms of owned power included under the head of "Other" showing decreases. the five years 1904-1909 the number of steam engines increased from 873 to 1,207, and the number of gas engines from seventyeight to 141, while the number of water wheels decreased from 108 to twenty-eight. In 1909, 87.7 per cent of the total primary power was generated by steam engines, a somewhat smaller proportion than is shown for either 1904 or 1899. As will be seen. the practice of renting power is increasing, 10.3 per cent of the total power reported being rented in 1909, as compared with 3.1 per cent and 3.5 per cent in 1904 and 1899, respectively. The use of electric motors for the purpose of applying the power generated within the establishments is also becoming more common. the horse-power of such motors increasing from 709 in 1899 to 11,965 in 1904 and 20,070 in 1909. The horse-power of electric motors run by rented power increased from 1,187 in 1899 to 3,765 in 1904 and 15.874 in 1909.

	Number	r				]	Per Cen	t
0	f Engines	or				Dist	tributio	n of
	Motors		H	Iorse-pow	er	Но	rse-pov	ver
POWER 1909	1904	18991	1909	1904	$1899^{1}$	1909	1904	1899
Primary power,								
total3, 293	3 1,059	864	154, 615	124,907	43, 434	100.0	100.0	100.0
Owned1,387	1,059	864	138, 640	121,071	41,895	89.7	06.0	96.5
	Í						96.9	
Steam1, 207		783	135, 645	117, 539	39,400	87.7	94.1	90.7
Gas 141	l 78	81	1,464	317	519	0.9	0.3	1.2
Water wheels. 28	3 108	55	1,377	2,094	1,493	0.9	1.7	3.4
Water motors 11	l	$(^{2})$	49	• • • • • •	(2)	(3)		• • • • •
Other	• • • • • •	• • •	105	1,121	483	0.1	0.9	1.1
Rented1,900	G (2)	( <sup>2</sup> )	15,975	3, 836	1,539	10.3	3.1	3.5
Electric1,900	G (2)	( <sup>2</sup> )	15,874	3, 765	1,187	10.3	3.0	2.7
Other	• • • • •	• • •	101	71	352	0.1	0.1	0.8
Electric motors.2,98	550	40	35,944	15, 730	1,896	100.0	100.0	100.0
Run by cur-								
rent gen-								
erated by es-								
tablishment.1,075	5 550	40	20, 070	11,965	709	55.8	76.1	37.4
Run by rented								
power1,900	§ (2)	(2)	15,874	3, 765	1,187	44.2	23.9	62.6

<sup>&</sup>lt;sup>1</sup> Includes the neighborhood industries and hand trades, omitted in 1904 and 1909.

### FUEL

Closely related to the question of kind of power employed is that of the fuel used in generating this power or otherwise as material in the manufacturing processes. The table following shows the quantity of each kind of fuel used in 1909, by totals, for all industries and for certain selected industries.

<sup>&</sup>lt;sup>2</sup> Not reported.

<sup>&</sup>lt;sup>3</sup> Less than one-tenth of 1 per cent.

					Oil,	
2	Anthra	,-		]	Including	
	cite	Bitumi-			Gasoline	Gas
	Coal	nous Coal	Coke	Wood	(Bar-	(1,000
INDUSTRY	(Tons)	(Tons)	(Tons)	(Cords)	rels)	Feet)
ALL INDUSTRIES	.9,616	3, 325, 135	691,837	10, 103	91, 275	342,577
Beet sugar		230, 221	9,300		30	• • • • • • •
Brick and tile	.2,732	110,420	195	1,682	1	
Cars and general shop construction and repairs by steam						
railroad companies	. 77	147, 291	446	3	1,184	2,033
Cement		123, 765				
Foundry and machine - shop	9					
products	. 16	15,026	11,724	660	774	1,674
Gas, illuminating and heating		99, 516	223		29, 136	
Iron and steel, blast furnaces.	• • • •	35, 263	529, 493			
Iron and steel, steel works and	1					
rolling-mills		308, 968	26,007	4,539	23,341	314, 313
Petroleum refining		17,383			33,350	
Smelting and refining, lead		162, 152	109,020	96		
All other industries	. 6, 791	2,075,130	5, 429	3, 123	3,459	24,557

NOTE.—In addition there were 334 tons of other varieties of fuel reported.

### Supplementary Data Regarding Important Industries (With Statistics for Laundries.)

For certain industries the Census Bureau collects, by means of special schedules, details regarding the quantity and value of materials and products which do not appear on the general schedule. Certain data of this character for four important industries in Colorado are here presented.

### SLAUGHTERING AND MEAT-PACKING

The following table includes for 1909 two establishments making sausage, while for previous years none was reported; it also shows by kind the quantities and values of products for the last three census years.

PRODUCT	1909	1904	1899
TOTAL VALUE	\$ 9,656,810	\$ 3,323,503	\$ 4,343,983
Beef, fresh—			
Pounds	33, 521, 352	15,589,690	20, 789, 680
Value	\$ 2,548,947	\$ 1,091,076	\$ 1,501,233
Veal, fresh—			
Pounds	1,369,852	498,089	417,000
Value	\$ 128,314	\$ 41,583	\$ 39,940
Mutton, fresh-			
Pounds	2, 405, 106	2, 790, 676	3, 138, 745
Value	\$ 237,668	\$ 256,377	\$ 270,729
Pork, fresh—			
Pounds	12, 191, 600	3, 337, 911	10, 454, 600
Value	\$ 1,198,459	\$ 313,799	\$ 663,687
Pork, salted or cured—			
Pounds	20, 530, 615	11,087,849	17, 377, 000
Value	\$ 2,648,836	\$ 982,129	\$ 1,044,050
Sausage, fresh or cured—			
Pounds	13,441,273	1,506,525	2, 535, 400
Value	\$ 289,058	\$ 117,444	\$ 153,866
Lard-			
Pounds	12, 633, 806	2, 613, 183	7,678,000
Value	\$ 1,418,794	\$ 181,197	\$ 417,960
Fertilizers and fertilizer materials—			
Tons	2,024	707	190
Value	\$ 54,413	\$ 8,303	\$ 2,030
Hides—			
Number		30, 807	38, 284
Pounds	4,071,771	1,784,820	2,128,330
Value	\$ 480,589	\$ 153,521	\$ 162,397
Pelts—			
Number		63, 822	(2)
Value	\$ 54,505	\$ 52,871	
All other products	\$ 597,227	\$ 125, 203	\$ 88,091

In general, the industry shows a remarkable increase in value of products from 1904 to 1909. The increases in the quantities and values of beef and pork products are very large without

<sup>&</sup>lt;sup>1</sup> Partly estimated. <sup>2</sup> Figures not available.

exception, but mutton and the by-product pelts show small decreases. During the five years the production of fresh beef, veal, sausage, and hides more than doubled, that of fresh pork increased nearly twofold, and that of lard nearly fivefold. The output of fertilizers and the value of "all other products," which includes the amount received for custom and contract work and for a number of by-products, show marked increases.

### FLOUR-MILL AND GRIST-MILL PRODUCTS

Colorado is not an important corn-growing state, but the development of dry-farming has in general brought about an increase in the production of wheat, oats, and barley. The following table gives the quantities and values of the different flourand grist-mill products reported for the census years 1909 and 1904:

PRODUCT	QUAN	TITY	VAL	UE
	1909	1904	1909	1904
TOTAL VALUE			\$7,867,706	\$5,783,421
Wheat flour—				
White (bbls.)	970,448	962,862	5, 136, 352	4, 348, 518
Graham (bbls.)	7,331	7,226	36, 286	28, 959
Corn meal and corn flour (bbls.)	21,958	18,419	74, 764	47,658
Rye flour (bbls.)	1,726	2,246	7,176	7,657
Buckwheat flour (lbs.)		2,500		75
Barley meal (lbs.)	367,800	114,000	8,190	912
Hominy and grits (lbs.)		8,038	• • • • •	286
Feed (tons)	54,350	25,411	1,567,745	539, 460
Offal (tons)	41,770	44, 349	978,663	776, 310
All other			58,530	33,586

A comparison of quantities rather than values best indicates the growth of the industry. Wheat flour, of which 99.3 per cent is white flour, is by far the most important product of this industry. Only slight gains are shown, however, for the five years in the quantities of white and Graham flour produced. Corn meal and corn flour show a gain of 3,539 in the number of barrels produced since 1904. The amount of barley meal produced in 1909 was more than three times the amount produced in 1904. Feed shows an increase in tonnage of 113.9 per cent, the largest increase in quantity shown in the table. The by-product, offal, decreased in quantity, and rye flour, relatively unimportant, decreased in both quantity and value. In 1909, 649 pairs of rolls and twenty-six runs of stone were reported as the equipment of the mills of the state. In the same year two establishments manufactured barrels and two manufactured sacks.

### PRINTING AND PUBLISHING

The best index of the development of this industry is the growth in the number of publications and their aggregate circulation per issue. The following table gives these details by period of issue for the years 1909, 1904, and 1899:

		Numbe	er		Aggregat	е
PERIOD		of Publica	tions		Circulation per	Issue
OF ISSUE	1909	1904	1899	1909	1904	1899
TOTAL	382	381	265	1,133,364	1,092,697	521, 213
Daily	53	42	42	335, 147	209, 185	<sup>1</sup> 157, 016
Sunday	13	14	17	223,008	222, 854	(1)
Semi-weekly	6	27	24	5,609	5, 301	2,500
Weekly	278 ;	274	179	338, 092	294, 242	285, 425
Monthly	31	38	19	230, 308	348, 815	72,947
All other classes	1	6 ,	4	. 1,200	12,300	3, 325

<sup>&</sup>lt;sup>1</sup>Sunday issues included with dailies.

As shown in the table, the aggregate circulation per issue more than doubled from 1899 to 1904, while the increase was slight from 1904 to 1909. This irregular development of the state's newspapers and periodicals as a whole is due almost entirely to the fluctuations in the circulation of the monthlies, which increased nearly fivefold from 1899 to 1904 and fell off decidedly during the succeeding five-year period. From 1904 to 1909 the dailies and weeklies increased in number and in circulation, while Sunday publications, semi-weeklies, monthlies, and all others decreased in number, and monthlies and all others in circulation.

There were published in the state, in 1909, four Italian weeklies and two semi-weeklies; three Spanish weeklies; two Spanish-English weeklies; one German, one Servian, one Slavonian, and one Swedish weekly; and one Japanese semi-weekly.

### LUMBER AND TIMBER PRODUCTS

The state has a very extensive and largely undeveloped timber area. The following statement shows the quantities of the principal products of the sawmills of the state for 1909 and 1904:

<sup>&</sup>lt;sup>2</sup>Includes one tri-weekly.

PRODUCT	1909	1899¹
Rough lumber (M feet, b. m.)	141,710	133,746
Shingles (thousands)	657	5,165
Lath (thousands)	11,494	5,558

<sup>&</sup>lt;sup>1</sup>Does not include reports for establishments with a product of less than \$500.

### LAUNDRIES

Statistics for steam laundries are not included in the general tables, or in the totals for manufacturing industries. In 1909 there were ninety-nine such establishments in the State of Colorado, thirty-six of which were in Denver, five in Pueblo, four in Colorado Springs, and two in Trinidad. The following statement summarizes the statistics:

Number of establishments	99
Persons engaged in the industry	2,076
Proprietors and firm members	103
Salaried employes	140
Wage-earners (average number)	1,833
Primary horse-power	1,895
Capital\$1	1, 270, 656
Expenses	
Services	1,055,461
Materials	290, 314
Miscellaneous	249, 863
Amount received for work done	1,980,693

Forty-five out of ninety-nine establishments were under individual ownership, and twenty-seven each under firm and corporate ownership. Three establishments had receipts for the year's business amounting to between \$100,000 and \$1,000,000, twenty-seven had receipts of between \$20,000 and \$100,000, and sixty-nine receipts of less than \$20,000 each.

The number of wage-earners employed each month and the per cent which this number represented of the greatest number employed in any month were as follows:

	Wage-F	Earners		Wage-	Earners
	•	Per			Per
		Cent of			Cent of
		Maxi-			Maxi-
MONTH	Number	mum	MONTH	Number	mum
January	1,696	82.9	July	. 1,996	97.6
February	1,684	82.3	August	. 2,046	100.0
March	1,707	83.4	September	. 1,962	95.9
April	1,756	85.8	October	. 1,855	90.7
May	1,763	86.2	November	. 1,850	90.4
June	1,844	90.1	December	1,835	89.7

The different kinds of primary power, the number of engines, and the amount of horse-power used in 1909 are shown in the following tabular statement:

	N	lumber	
	of	Engines	Horse-
KIND	or	Motors	Power
PRIMARY POWER, total			1,895
Owned		• • • •	1,443
Steam		67	1,428
Water motors		1	15
Rented			452
Electric		42	272
Other			180

The kind and amount of fuel used are shown in the following statement:

KIND	Unit	Quantity
Coal—		
Anthracite	Tons	428
Bituminous	Tons	25,685
Wood	Cords	20
Oil	Barrels	65
Gas	1,000 feet	7, 433
Other	Tons	4,800

### CUSTOM SAW- AND GRIST-MILLS

Statistics for custom saw- and grist-mills are not included in the general tables or in the totals for manufacturing industries and can not be separately presented here without divulging individual operations.

Table I—Comparative Summary for 1909, 1904, and 1899

# THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES

Persons

Engaged in Industry

				Pro-					Exp	Expressed in Thousands	Thouse	spun	
				prie-		Wage-							Value
				tors	• 1	Earners							Added
	Z	Number of	<b>4</b>	and		(Aver-							by
		Estab-		Firm	Salaried	age	Primary	_			Cost of	Value Manu-	Manu-
		lish-		Mem-	Em-	Num-	Horse-				Mate-	Jo	fac-
INDUSTRY	Census ments	ments	Total	bers	ployes	ber)	Power	Capital	Power Capital Salaries Wages	Wages	rials	Products ture	ture
STATE-ALL INDUSTRIES	1909	2,034	34,115	1,722	4,326	28,067	154, 615	\$162,668	\$5,648	\$19,912	\$80,491	\$130,044	\$49,553
	1904	1,606	25,888	1,398	2,677	21,813	124,907	107,664	3,549	15,100	63, 114	100,144	37,030
	1899	1,323	•	:	1,870	19, 498	43, 434	58,173	2,059	11,708	60, 751	89,068	28, 317
Bread and other bakery products	1909	250	1,325	272	164	888	613	1,676	163	559	2, 297	3, 969	1,672
	1904	186	934	200	64	029	231	943	2.2	411	1,487	2,657	1,170
	1899	132	621	135	99	420	•	552	48	236	865	1,607	742
1													
Brick and tile	1909	69	1,036	46	89	922	3,923	2,421	62	637	511	1,670	1,159
	1904	63	580	52	60	495	2,192	1,036	39	322	164	817	653
	1899	65	532	92	18	438	1,083	526	18	237	86	497	411

Butter, cheese, and condensed milk	1909	330	304	56	89	210	657	1,221	89	130	1,924	2,340	416
	1904	051	141	16	28	26	476	593	31	28	1,081	1,290	209
	1899	38	133	10	18	80	403	504	11	0F	471	618	147
`													
Canning and preserving	1909	30	089	15	26	518	1,349	1,486	107	250	672	1,528	856
	1904	15	358	7	29	315	541	554	39	136	429	\$21	392
	1899	12	•	•	27	237	•	312	29	2.6	250	406	156
Cars and general shop construction													
and repairs by steam-railroad com-													
panies	1909	29	4,300	0 0 0	307	3,993	3,947	4,708	363	3, 393	2,604	6,559	3, 955
	1904	34	3, 267	0 0 0 0	215	3,052	2,422	1,646	253	2,265	2,663	5, 259	2,596
	1899	29	2,824		137	2,687	1,152	1,682	148	1,677	1,278	3,142	1,864
۰													
Confectionery	1909	35	483	35	102	349	145	580	95	136	531	1,023	492
	1904	19	596	11	65	239	66	341	44	105	294	685	391
	1899	10			0.1	153	•	277	46	62	225	420	195
Flour-mill and grist-mill products	1909	22	429	47	100	282	6,810	4,835	134	220	6,672	7,868	7, 196
	1904	52	362	26	95	244	5,927	2,326	104	203	4,797	5, 783	986
	1899	49	•	:	87	272	*	1,977	92	. 291	3,769	4,441	672
Foundry and machine-shop products	1909	111	2, 250	Ç	362	1,813	4,325	7,056	539	1,280	2,801	5, 907	3, 103
	1904	288	1,677	80	146	1,451	2,530	3,241	211	1,062	1,933	4,108	2,175
	1899	84	•	•	122	1,875	* * * * * * * * * * * * * * * * * * *	2,909	153	1,162	1,720	4,159	2, 439

Table I—Comparative Summary for 1909, 1904, and 1899—Continued THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES

. Persons'

Engaged in Industry

_				Pro-					Exp]	Expressed in Thousands	Thousa	nds	
				prie-		Wase-						r	Value
				tors		Earners	70					Ą	Added
	Z	Number of	Jt.	and		(Aver-							by
		Estab-		Firm	Salaried	age	Primary	_			Cost of	Value Manu-	Ianu-
		lish-		Mem-	Em-	·mnm'	Horse-				Mate-	Jo	fac-
Ŭ	ensus	Census ments	Total	bers	ployes	ber)	Power	Capital	Power Capital Salaries Wages	Wages	rials ]	Products	ture
Furniture and refrigerators	1909	14	224	2	41	176	258	494	45	146	257	545	285
	1904	11	186	10	19	157	164	167	22	137	178	432	254
	1899	34	09	63	2	51	24	2.2	∞	34	90	170	80
						•							
	1909	30	315	Ħ	53	251	4,361	2,415	13	190	126	570	444
	1904	16	182	6	35	138	2,187	1,240	35	93	11	376	305
	1899	9	117	9	18	93	292	664	21	54	31	204	173
	1909	30	363	29	65	269	109	585	89	172	539	1,054	515
	1904	22	230	19	36	175	88	364	36	125	258	577	319
	1899	$91_{\rm I}$	:	•	26	154	:	230	22	100	239	442	203

						BU	REA	LU	OF	LA	BOI	R S	TA	TĮS	TIC	S					239
2,401	1,662	1,667	2,789	1,691	1,539		406	395.	472			328	491	413		5, 156	4,156	2,874	1,362	545	622
3,311	2,120	2,043	4,185	2,497	2, 638		620	626	969			436	787	574		6,962	5, 467	3,697	. 9,657	3,324	4,344
2005	458	376	1,396	908	1,099		220	231	224			108	296	161		1,806	1,311	823	8, 295	2,782	3,722
349	243	257	1,458	968	799		208	200	279			57	268	216		1,823	1,343	1,130	389	175	171
193	137	28	172	833	8		32	ಣ	14			26	51	09		1,104	701	353	210	55	61
7,327	4,703	5, 682	3, 472	1,892	1,605		296	288	410			1,079	832	856		4,941	3,604	2,670	3,653	1,107	1,381
2, 434	3,001	1,050	11,177	6,659	:		f-69 <u></u>	359	:			450	2, 1.08	1,005		2,045	1,531	•	2,450	888	* * * * * * * * * * * * * * * * * * *
421	300	399	2,190	1,430	1,507	*	267	212	399			214	476	374		2,366	1,902	1,896	629	217	261
85	09	39	163	92	90		27	28	12			14	31	42		975	615	372	170	52	48
വ	2	6	261	109	:		52	98	:			ကေ	4	2		406	399	:	ro	4	2
514	367	371	2,614	1,631	•		346	276	•			231	511	423		3,747	2, 916	•	834	303	316
11	11	14	263	110	1148		44	93	39			9	11	10		439	3419	286	13	11	14
1909	1901	1899	1909	1901	1899		1909	1901	1899			1909	1901	1899		1909	1904	1899	1909	1904	1899
Liquors, malt			Lumber and timber products			ō.	Marble and stone work				Pottery, terra-cotta, and fire-clay	products				Printing and publishing			Slaughtering and meat packing		

Table I—Comparative Summary for 1909, 1904, and 1899—Continued

THE STATE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES

Persons Engaged in Industry

16											
Value	Added	by	Manu-	fac-	s ture	663	643	446	22, 352	18,000	13, 202
			Value	jo	Products	1,021	979	089	70,816	61,539	58, 290
			Cost of	Mate-	rials	358	336	234	48, 464	43,539	45,088
					Wages	306	308	223	8, 123	6,750	4,788
					Salaries	59	28	20	2,129	1,570	813
					Capital	427	299	200	113, 325	82, 489	35, 959
			Primary	Horse-	Power	•	:	•	108,868	93,554	•
Wage-	Earners	(Aver-	age	Num-	ber)	427	481	337	11,848	9,732	7,941
			Salaried	Em-	ployes	35	23	23	1, 433	1,036	577
prie-	tors	and	Firm	Mem-	bers	104	128	97	326	172	:
		J(			Total	563	632	457	13, 607	11,039	•
		lumber o	Estab-	lish-	ments	66	3117	98e	445	368	281
		Z			Census	1909	1904	1899	. 1909	1904	1899
					INDUSTRY	pacco manufactures			other industries		
	. Wage-	. Wage- Earners	. Wage- Earners (Aver-	prie Wage- tors Earners and (Aver- Firm Salaried age Primary Cost of Value B	prie Wage- tors Earners and (Aver- Firm Salaried age Primary Cost of Value Mate- of	tors Earners  Number of and (Aver-Estab- Firm Salaried age Primary Horse- Mate- of Census ments Total bers ployes ber) Power Capital Salaries Wages rials Products	tors  Number of and  And  Estab-  Iish-  Census ments  Total bers  Divise-  Horse-  Number of and  Ander-  Number of and  Ander-  Number of and  Ander-  Number of and  Ander-  Number of Aver-  Horse-  Number of Aver-  Horse-  Number of Aver-  N	tors	Purior   Purior   Purior   Parior   Parior   Purior   P	Purior   P	tors tors  Number of and Average  Fish-  Salaried age Primary  Census ments Total bers 1904 **117 632 128  1905 **464 578  1904 **464 568  11,039  Prim  Ranners  Avarage  Ava

<sup>&</sup>lt;sup>1</sup>Does not include statistics for one establishment, to avoid disclosure of individual operations.

<sup>&</sup>lt;sup>2</sup>Does not include statistics for six establishments, to avoid disclosure of individual operations.

<sup>3</sup>Does not include statistics for two establishments, to avoid disclosure of individual operations.

Table I—Comparative Summary for 1909, 1904, and 1899—Continued

CITIES OF 50, 000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES

Persons

		Value	Added	by	Jann-	fac-	ture	\$20,612	15,660	13, 434		70	44	27	1,031	725	536
	nds		7		Value Manu-	Jo	Products ture	\$51,539		37, 906		145	92	29	2,546	1,656	1,132
	Expressed in Thousands				Cost of	Mate-		\$30,927	21,000	24, 472		ទ	48	88	1,515	931	969
	ressed in						Wages	\$8,405	6,711	5, 236		36	22	12	333	250	163
	Exp						Salaries	\$3,019	1,818	1, 181		າລ	Н	67	134	89	44
							Power Capital Salaries Wages	\$47,534	27, 434	31,271		45	58	30	1,177	699	405
					Primary	Horse-	Power	25, 165	•			52	•	•	487		:
		Wage-	Earners	(Aver-	age	Num-	ber)	12,058	9,672	8,500		42	32	19	594	442	311
ustry					Salaried	Em-	ployes	2, 393	1,484	1,036		ਚਾ	<del></del> -	П	11.7	22	59
Engaged in Industry	Pro-	prie-	tors	and	Firm	Mem-	bers	586	596	0 0 0 0	ě	10	21	63	98	72	92
Engage				)f			Total	15,037	11,752	0 0 0 0		51	35	22	797	999	446
				Number of	Estab-	lish-	Census ments	992	722	574		ಬಾ	Ťī	13	91	157	79
				4			Census	1909	1901	1899		. 1909	1904	1899	. 1909	1904	1899
							INDUSTRY	DENVER-ALL INDUSTRIES				Brass and bronze products			Bread and other bakery products		

Table I—Comparative Summary for 1909, 1904, and 1899—Continued

CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES

				Value	Added	by	ann-	fac-	ture	684	386	221	303	169	36		115	166	26
			s	>	. A		Value Manu-	of	Products ture	1,041	474	262	505	347	33	,	160	251	142
			Expressed in Thousands				Cost of	Mate-	rials Pr	357	88	41	202	178	27		45	85	45
			sed in T				ŭ	Ä		376	208	128	65	57	13		55	68	13
			Expres						alaries W	44	12	6	37	576	ಬ		9	4	က
									Power Capital Salaries Wages	806	422	295	363	251	88		96	195	112
							Primary	Horse-	Power C	1,367	•	•	300	•	•		64	. :	:
		-		Wage-	Earners	(Aver-	age F	Num- ]	ber)	576	303	208	114	103	31		84	121	77
שביוידטט קאון חחזי-		stry		,	H	,	Salaried	Em-	ployes	34	11	2	30	15	6		9	4	चा
זעז חח	Persons	ged in Industry	Pro-	prie-	tors	and	Firm 8	Mem-	bers	17	31	22	∞	10	•		15	27	18
-	H	Engaged				e, ,			Total	229	345	237	152	128	•		105	152	66
NO OK						Number of	Estab-	lish-	ments	26	83	20	6	18	15 5		12	125	214
TARIT						Z			Census ments	1909	1904	1899	1909	1904	1899		1909	1901	1899
CITIES OF 50,000 INHABITANTS OR MOME			٠				4	•	INDUSTRY	Rrick and file			Canning and preserving	0			Orania on a wayons and materials	California and Tables and California	

ruction
constr
shop
general
and
Cars

and repairs by steam-railroad												
companies	1909 5	1,845	:	139	1,706	1,485	2, 473	154	1,477	1,226	2,966	1,740
	1904 5	1,368	:	26	1,271	:	621	112	954	956	2,072	1,116
	1899 5	1,075	0 0 0 0	69	1,006	•	902	99	623	629	1,295	216
Confectionery	1909 21	338	19	65	4.55	26	403	65	94	407	160	353
	1904 14	230	10	36	184	:	262	37	83	241	999	319
	1899 6	•	* * * * * * * * * * * * * * * * * * *	49	96	•	169	. 58	39	159	. 290	131
											7	
Foundry and machine-shop products	1909 67	1,573	es S	267	1,268	3,040	5, 234	403	875	2,300	4,598	2,298 -
	1904 350	1,24.4	Se	109	1,097	•	2, 373	170	802	1,551	3, 275	1,724
	1899 51	•	•	Sõ	1,221	•	1,971	117	759	1,134	2,534	1,400
Leather goods	1909	254	18	59	177	02	382	09	108	318	651	333
	1904 16	165	15	29	121	:	278	28	84	158	389	231
	1899	0 0 0 0	•	19	95	•	156	16	09	158	281	123
Liquors, malt	1909 4	261	•	51	210	1,283	4,894	126	921	432	1,675	1,243
	1901 3	191	•	95	156	:	3, 159	95	121	238	1,226	988
	1899 4	230	ಣ	21	206	•	4,954	. 50	168	225	1,440	1,215
Lumber and timber products	1909 22	816	21	46	515	1,509	821	48	354	277	1,177	009
	1904 19	331	2	17	307	•	321	20	229	255	£03 ·	348
	011 6681	332	9	25	301	•	649	31	222	878	734	356

Table I—Comparative Summary for 1909, 1904, and 1899—Concluded

CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES

			ne	led		-nı	fac-	re	257	375	377	3, 483	3,818	1,922		527	477	325
			Value	Added	by	Value Manu-	fa	ets tu		_	_					63	_	ıo
		nds				Valu	Jo	Products ture	426	583	280	4,833	4,836	2,459		792	777	485
		Expressed in Thousands				Cost of	Mate-	rials 1	169	214	203	1,350	1,018	537		265	234	160
		essed in						Wages	133	191	230	1,215	968	733		246	232	164
		Expr					,	salaries	16	31	10	248	212	262		59	26	20
								Power Capital Salaries Wages	303	273	221	2, 759	2,018	1,853		347	212	129
						Primary	Horse-	Power	688	•	•	1,036	:	:	,	•	•	•
		٠	Wage-	Earners	(Aver-	age	Num-	ber)	151	206	282	1,536	1, 253	1,131		358	360	241
	ustry			,		Salaried	Em-	ployes	14	25	9	707	440	263		32	19	23
Persons	ged in Industry	Pro-	prie-	tors	and	Firm	Mem-	bers	30	32		111	125	•		51	99	:
_	Engage				ध्य			Total	195	263	•	2,354	1,818	•		441	435	•
					Number of	Estab-	lish-	Census ments	26	30	22	150	155	124		51	99	241
					Ż			ensus	1909	1904	1899	1909	1904	1899		1909	1904	1899
								INDUSTRY	Marble and stone work			Printing and publishing				Tobacco manufactures		

Wage-Emmersfors Officers, Persons Engaged in Imbustry Number Dec. 15, or EXPENSES Miseellinneims Number of and Superin-Wage-Enriges Nemest Representative Day Malerials Taxes. Estab-Firm Jendenis, Clerks Number 16 and Over I nder 16 Princity Services including Added lisit-Mem- and Fe- Average Maximum Minimum Fu-Fe- Hurse-Wage-Rent of Rent of Internal Contract INDUSTRY ments Tolat hers Manngers Mule male Number Month Month Total Male mule Mule mule Power Capital Total Officials Clerks Earners Power Other Factory Revenue Work Other Products facture 1 ALL INDUSTRIES 2,031-31,116-4,722-1,287-2,318-521-28,067-No.v.,32,060-Peb.,25,181-49-(9-49)-(9-49)-(9-45),615-128,016-128,018-128,01 \$162,667,801 \$114,650,502 \$2,827,674 \$2,820,013 \$19,912,312 \$3,528,516 \$71,962,388 \$644,057 \$1,369,221 \$408,002 \$6,007,689 \$130,644,312 \$49,553,408 2 Artificial stone 65 May 95 Jnn, 8.5 33 80 146,662 119,760 5,633 3,30 14, 531 53, 134 152, 873 760 1.584 6.555 3 Boxes, cigar . 26 21 June 5 22 Feb. 2 20 21 32 50, 415 31, 165 852 8, 961 405 19, 106 320 1,320 41,86 22, 681 4 Brass and bronze products 51 42 Nov 48 Meh. 33 13 41 52 45, 207 122,391 2,111 4, 463 10, 185 3, 600 440 2, 186 146,092 10,044 5 Bread and other bakery products 250 1, 325 272 889 Ang 939 Jan 810 899 640 244 1-1 1, 676, 443 3, 368, 683 48,165 113,870 559, 172 72,320 2.224.688 71, 810 242,411 3,968,160 6 Brick and the July 015 1,213 Jan. 1,191 1 3,923 2, 400, 670 1,065,535 63, Bhi 16,165 204, 161 217, 342 13, 501 114 962 4,600,000 1,155,639 7 Brooms 17 Aug. 49 Apr.4 46 Н 70, 113 99, 516 1,50 26, 313 1.294 65, 378 1,377 1, 156 448, 758 52,086 5 Brushes Nov 6 Mny1 5 11 44, 595 15, 951 9, 100 416 19,160 9, 371 9 Butter, cheese, and condensed milk. 39 301 27 111 19 210 July 247 Jan. 187 200 185 15 657 1,220,521 2, 238, 279 35,097 129, 712 16, 205 1.507.077 5 144 6, 464 104, 516 2, 339, 765 416, 163 10 Canning and preserving . 630 515 Aug. 4,161 Apr. 2 457 1,311 436 867 1,319 1, 486, 225 1.219.959 63, 835 13, 385 250, 241 1/1,915 652, 449 6, 561 172, 233 1,527,779 455, 352 II Parriages and wagens and materials 3 131 July 112 Jun. 2 108 108 108 125 6,040 2,016 87,301 3, 335 81,515 7, 163 1.743 174, 545 12 Cars and general shop construction and repairs by steam-railthad com-29 1, 300 panles ..... 180 2 3,093 Dec. 4,373 July 3,572 4,239 4,237 2 ... 11, 547 12 1, 101, 532 6, 529, 442 146, 279 3, 303, 113 21%, 403 100, 147 62, 521 5, 414 101, 110 6, 558, 501 3,551,550 18 Cars and general shop construction and repairs by street-ralliond com-234 panles 5 4 ... 225 July 246 Meli, 212 218 217 1 464 13 231, ts2 273, 635 3, 400 140, 346 113, 441 5.029 273, 636 11 Confectionery ... 35 183 32 47 349 thee. 21 119 Feh. 310 423 1631 261 145 14 579, 526 894, 850 29, 782 62, 138 135, 701 521,1182 1,023,073 191,910 15 Copper, the, and sheet-hon products 137 23 2 - 1 104 Dec. 122 Jun. 833 132 130 44 201,065 131,523 6,711 5.514 253, 673 16 Fancy articles, not elsewhere specifled 16 10 Aug. 1 11 Jan. 2 7 1.0 16 35,590 4,319 5,348 930 If Fiont-mill and grist-mill products ïï 429 151 Oit. 320 July 6,810 4, 835, 438 7,050,044 £0.100 219,965 53, 085 6, 619, 229 2, 124 233, 776 1,867,706 18 Voundry and machine-span products 441 2, 250 75 131 201 30 1.813 Sept. 2.001 Jan. 1.672 1, 818 1.502 13 4, 325 7, 656, 156 5, 195, 417 311, 314 194, 455 1, 280, 148 147,637 2,656,323 40,917 14, 200 449, 963 19 Furniture and refrigerators... 44 221 Ii6 Dec 196 Jan. 159 195 258 493, 564 17, 316 196, 569 27, 511 145,891 3.571 14, 417 2) Hand stamps and stem its and brambs 3 19 Dec.3 16 Junes 15 15 11 15,775 12,750 10,510 2,520 975 28 0.09 21 lee, manufactureil 315 Aug. 4, 361 145, 382 75,830 25, 209 150,503 2,912 1,510 17,156 f3 Dec 22 Jewelry . 11 38 13 77 Peli 714 14 33 114, 179 201, 512 11, 100 1,339 13, 371 23 Leather goods 269 109 23 584,785 883, 170 29, 20 38, 496 2.710 535 294 24 Liquiers, mall 614 t2t July 32 53 4î5 Jun. 35.1 153 420 2, 431 21 7, 326, 513 2,635,601 103,652 345, 926 64,326 811,655 155, 977 25 Lumber and timber products. 2, 614 77 2. 190 Aug.3 2,577 Am 2,909 11,177 3, 472, 119 3, 175, 166 112,526 55,537 1, 457, 589 33, 977 1,307 002 9,335 32, 123 405, 125 36 Marble and stone work 41 346 52 267 15 11 June 297 Jan. 224 278 278 694 966, 612 516,957 21, 320 10, 381 208, 405 12, 855 201,039 3,450 12, 48 37, 610 635, 601 405, 737 27 Mattresses and spring heds. 118 Oct. 138 Peb 52 39 176, 187 337,770 274 14, 450 7,533 44, 839 4.976 237, 519 10. €10 1, 117 369, 37 28 Models and patterns, not including 15 13 Nov. 2 8 paper patterns . 29 8,056 2,389 41.53 16,983 29 Patent medicines and compounds and druggists' preparations 50 Mch. 50 Jan 43 90 115, 450 10,073 64,69 1,050 100 911 30 Petroleum, relining 89 9 73 Oct. 50 Feb.2 63 76 76 420 30 1, 112, 726 591, 665 25, 253 11.040 63, 547 50, 673 389, 235 31 Photo-engraving 22 Dec. 24 Peb. 2 20 2, 161 6, 813 2.875 50.170 32 Pottery, Jerra-cotta and fire-clay products . ... 231 214 July 267 Jan. 181 225 450 1, 078, 694 442, 741 38,941 69, 310 45,717 139 3,747 625 2,366 Dec. 2,483 May 2,307 2,508 2,048 401 54 5 16G 23 Printing and publishing 406 154 2.045 33 4.941.071 5, 959, 377 \$27.078 676, 743 1, 823, 196 76, 125 1,790,97 146, 214 34 Slaughtering and meat packing. 13 834 24 136 10 65# June 692 Nuv.2 634 2,460 9, 243, 976 61,061 148,519 359, 133 8, 226, 853 19, 143 t0 June 35 Steam packing 29 30 Nov. 151 36 29 TN, 185 50, 450 8, 400 1.270 21.973 1 013 36,611 3.220 36 Stoves and finnaces, Including gas 15 5 and all stoves 30 Nov. 2 31 Aur. 2 28 30 30 14, 545 90.072 1.546 97 614 35, 740 3.310 26, 265 37 Tohacco manufuctures 563 101 12 15 127 Dec. H5 Meh. 385 434 351 426,817 1, 410 \$6,467 7.0 6 64 Oct. 38 Wall plaster 1 68 Jun. 52 61 61 410 162, 500 100, 322 5, 100 1,050 35, 533 11.006 41, 412 0,775 162, 403 812 130 10, 35 29 All other Industries 255 12, 337 39 111, 721, 576 59, 064, 273 1, 021, 807 981, 193 7, 446, 996 7, 319, 061 10, 053, 234 7, 903 - 2, 046, 256 - 68, 51, 800 - 20, 949, 605

 ${}^{1}\mathrm{No}$  Hypres given for reasons explained in the Introduction, page 2.

Agricultural implements

Aifificial limbs	2	Charcoal
Automobiles, including bodies and paris	4	Plothing, men's, including shirts
Awnings, tents, and salls	Ť	r'lotifing, momen's .
Balibiti metal and solder	3	Coffee and sides, resisting and grinding ?
Haking powders and yeast	2	Collins, fortal rases, and undertakers!
Beet sugar	15	gnods
Bieyeles, motoreycles, and parls	4	Pake
Blacking and cleausing and polishing		Pumperinge and whoden goods, not else-
preparations	2	where spreified
Boots and shoes, including our stock		Cuttery and lools, not elsewhere speci-
and findings	1	fled
Boxes, futtry and paper	3	Dairymen's, poulierers', and aplarisis'
Butler, reworking	1	shiplies
Carpets, rng	2	Electrical machinery, apparatus, and
Cars, steam-rallroad, not including op-		supplies
erations of railroad companies		Electroplating
Cars, street-milroad, not including op-		Explosives
erations of railroad companies		Firearms and ammunition

3 Cement

Pro- Sala-

Fireworks	l
Plags, hanners, regulia, society badges.	
and emblems	1
Finvoring extracts	1
Food preparations 22	2
Fire goods	2
Furs, dressed	}
Furnishing goods, men's 3	
Cas, illuminating and heating 10	1
Cas and electric fixtures, and lumps	
and reflectors	
Olnss, culting, staining, and orna-	
menting 3	
Cloves and mittens, leather 1	
Gold and sliver, reducing and refining,	
nol from the ore	
Grease and tallow 2	
Hair work 1	

Mais and caps, other than felt, straw,	
and wool	1
Hustery and knil goods	1
House-furntshing goods, not elsewhere	
specified	I
Ink, printing	1
link, writing	2
Instruments, professional and scien-	
tine	4
Iron and steel, blast furnaces	1
Iron and sleet forgings	1
from and steel, steel works and rolling	
ntills	1
Jewelry and instrument cases	1
Kaulin and ground earlins	1
Lapidary work	1
Lead, bar, plpe, and sheet	1
Leather, tauned, curried, and finished .	1
Linte	Q.

Looking-glass and picture frames	1
Mnlt	1
Mineral and seda waters	65
Mirrors	-
Mucliage and paste,	1
Musical instruments and materials, not	
specificat	1
Musical instruments, planes and organs,	
and materials	1
Optical gonds	9
Paint and varnish	4
Paper goods, but elsewhere sperified.	1
Photographic apparatus and materials	?
Rooting materials	1
Sufes and vaults	1
Scales and balances	2
Show cases	1
Signs and advertising noveliles .	1
Silverivire and plated ware	0

Smelting and refining, ropper	- 1
Smelting and refining, lead	
Smelting and rething, sinc	
Songe	
Suda-water upparatus	1
Starch .	
Statuary and art goods	3
Sulphuric, nitric, and mixed acids.	1
Thomas and older	3
Vindow shades and fixtures .	1
Alrework, including wire rope and	
cable	4
Vool scanring	1

Same number required for one or more other months,
All other industries embrace:

- Bridge Committee 101 / 101 / 101 / 102 All property between the last and the later of the second of No. The same of the sa

7, 575	4,774	5, 952
29, 264	19, 579	26,144
21,689	14,805	20, 192
2,856	2, 493	1,867
1,017	671	518
27, 329	16,322	10,657
13,986	•	•
4,473	3,716	3, 273
823	169	966
171	171	•
5,466	4,481	•
260	243	921
All other industries 1909	1904	1899

CITIES OF 10,000 TO 50,000 INHABITANTS-ALL INDUSTRIES COMBINED

Colorado Springs	1909	59	694	40	138	516	505	\$ 2,023	\$ 144	\$ 413	\$ \$23	\$ 1,733	\$ 910
	1904	49	2112	5	99	410		1,611	84	284	412	1,101	
	1899	34	•	• • •	8.	409	•	1,127	20	225	365	845	480
Pueblo	1909	94	1,637	63	244	1,320	2,276	4, 137	264	957	1,497	သ မေ (44)	1.848
	1904	80	1,120	65	114	941		2,040	129	199	941	2,197	1,256
	1899	69	•	•	0.2	730	•	1,184	02	458	672	1,440	892
Trinidad	1909	30	27.9	50	68	220	851	698	. 25	170	310	814	504
	1904	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•		•	•	•	•	•	0 0 0	•	•	:
	1899	0 0 0 0	•	•	0 0 0 0	0 0 0 0	•	:	0 0 0	0 0 0 0	0 0 0 0	•	•

Does not include statistics for one establishment, to avoid disclosure of individual operations.

<sup>2</sup>Does not include statistics for two establishments, to avoid disclosure of individual operations.

3Does not include statistics for five establishments, to avoid disclosure of individual operations.

# CHAPTER VIII

# STATISTICS OF THE RAILROADS OF COLORADO FOR THE YEAR ENDING JUNE 30, 1912

#### ATCHISON, TOPEKA & SANTA FE RAILROAD

		' Total	Total	Average		
		No.	Yearly	Daily		
	No. Em-	Days	Compen-	Compen-	Acc	idents
CLASS	ployes	Worked	sation	sation	Killed	Injured
General officers	2	713	\$ 10,175.54	\$14.27	• •	• •
Other officers	13	4,790	25,429.20	5.31	••	• •
General office clerks	65	22,165	67,438.74	3.04	• •	• •
Station agents	35	12,448	31,009.42	2.49	• •	• •
Other station men	175	56, 153	105, 907.71	1.89		• •
Engine men	87	23,746	138,605.86	5.84	• •	• •
Firemen	96	23, 735	86, 133.27	3.63	• •	• •
Conductors	59	13,848	87,781.21	6.34	• •	• •
Other trainmen	170	43, 204	156,055.31	3.61	• •	••
Machinists	71	26, 569	150,618.40	3.98	• •	• •
Carpenters	69	21, 359	57,561.52	2.69	• •	• •
Other shopmen	428	148,050	375, 275.18	2.53	• •	• •
Section foremen	84	25, 471	55,077.21	2.16	• •	••
Other trackmen	1,110	165, 768	230, 057.11	1.39	• •	• •
Switch and crossing me	en. 7	2,460	4,185.82	1.70	• •	• •
Telegraph operators	62	20, 335	58,706.64	2.89	• •	
All other laborers	469	142,727	318, 129.77	2.23	15	433
			-		_	_
Totals	3,002	753,541	\$1,913,147.91	\$ 3.88	15	433

# BEAVER, PENROSE & NORTHERN RAILROAD

			Total		Total	Average		
			No.	~	Yearly	Daily		
		No. Em-	Days	С	ompen-	Compen-	Acc	idents
	CLASS	ployes	Worked		sation	sation	Killed	Injured
Ger	eral officers	1	366	\$	1,200.00	\$ 3.28	0 0	• •
Sta	tion agents		284		760.00	2.68	• •	• •
Eng	ginemen	1	366		1,560.00	4.26	• •	
Fir	emen	1	366		840.00	2.30	• •	* *
Con	iductors	1	326		1,340.00	4.11	• •	• •
Sec	tion foremen	1	366		780.00	2.13	• •	
Cro	ssing and switchme	n	126		208.05	1.65	• •	• •
								_
	Totals	5	2, 200	\$	6,688.05	\$ 2.91 4-7	7	• •

# CHICAGO, BURLINGTON & QUINCY RAILROAD

		Total	Total	Average		
		No.	Yearly	Daily		
N	o. Em-	Days	Compen-	Compen-	Acci	idents
CLASS	oloyes	Worked	sation	sation	Killed	Injured
General officers	. 2	730	\$ 4,980.00	\$ 6.82		
General office clerks	. 7	2, 191	8, 199. 50	3.74		• •
Station agents	. 36	13, 140	27, 173.08	2.07		
Other station men	. 103	32, 239	73, 926.54	2.29		• •
Enginemen	. 73	20,410	104, 223.40	5.10	0 0	* *
Firemen	. 68	18,980	59, 774.70	3.15		
Conductors	. 48	13, 505	57,669.70	4.27		
Other trainmen	. 88	24,455	71,370.75	2.92		
Machinists	. 15	4,695	18, 183.88	3.87		• •
Carpenters	. 42	13, 146	33, 090.78	2.52		• •
Other shopmen	. 279	25, 120	190, 415.34	2.53		
Section foremen	. 60	21,900	50, 440.87	2.30		• •
Other trackmen	. 570	153, 683	238, 054. 10	1.55		• •
Switchmen and watchmen	1 3	1,095	2,097.45	1.92	• •	• •
Telegraph operators	. 49	17, 885	44,998.39	2.52		
All other laborers	. 246	66, 669	176, 208.49	2.61		• •
			-		_	magnitude
Totals	.1,689	429, 873	\$1,160,807.17	\$ 3.13 2-3	3	143

# CHICAGO, ROCK ISLAND & PACIFIC RAILROAD

		Total	Total	Average		
		No.	Yearly	Daily		
No.	Em-	Days	Compen-	Compen-	Acc	idents
CLASS plo	oyes	Worked	sation	sation	Killed	Injured
General officers	44	708	\$ 12,274.45	\$17.34		
Other officers	98	3, 599	33, 079.61	9.29	• •	• •
General office clerks1,	543	24, 994	58, 891.17	2.36	• •	• •
Station agents	17	5,953	12,800.73	2.15		
Other station men	8	3, 191	4, 117.41	1.29		••
Enginemen	37	18, 138	86,086.37	4.75	• •	* *
Firemen	37	18, 163	59,074.85	3.25		
Conductors	24	11, 157	54, 197.31	4.86		• •
Other trainmen	56	23,977	66,537.51	2.78		
Machinists	2	1,357	5, 982. 98	4.41		• •
Carpenters	6	5, 266	13,082.97	2.48		
Other shopmen	71	29, 561	64, 459.94	2.18	• •	• •
Section foremen	26	9,651	20,052.43	2.08		
Other trackmen	$60 \cdot$	26, 986	34,917.02	1.29		
Telegraph operators	28	10,942	21, 909.72	2.00		
All other employes	619	30, 486	64,665.77	2.12		
			-			_
Totals2,	676	224, 089	\$ 612,130.14	\$ 4.05 3-10	6 13	71

#### COLORADO SPRINGS & CRIPPLE CREEK DISTRICT RAILROAD

		Total	Total	Average		
		No.	Yearly	Daily		
No	. Em-	Days	Compen-	Compen-	Acc	idents
pl	loyes	Worked	sation	sation	Killed	Injured
General officers	8	984	\$ 4,916.68	\$ 5.00	• •	• •
Other officers	3	449	1,267.68	2.82	• •	• •
General office clerks	32	4,073	5,985.98	1.47	• •	• •
Station agents	6	654	1,777.38	2.72		• •
Other station men	4	499	1,257.24	2.52	• •	• •
Enginemen	15	1,227	6,718.89	5.48	• •	• •
Firemen	16	1,182	4,476.23	3.79	• •	• •
Conductors	14	1,273	5,745.74	4.51	• •	• •
Other trainmen	21	2,219	7, 737.99	3.49	• •	• •
Machinists	4	427	1,597.53	3.74	• •	• •
Carpenters	9	1,023	2,975.54	2.91	• •	• •
Other shopmen	14	1,427	3,788.13	2.65	* 0	
Section foremen	14	1,730	3,630.54	2.09	• •	• •
Other trackmen	83	8,189	13, 391.98	1.64		• •
Crossing and switchmen	3	297	449.50	1.68	• •	• •
Telegraph operators	12	1,510	3, 180.23	2.11	• •	• •
All other laborers	37	4,565	10, 355.58	2.27	• •	• •
						-
Totals	295	31,728	\$ 79,252.84	\$ 2.99 2-3	3	• •

#### COLORADO EASTERN RAILROAD

			Total		Total	Average		
			No.		Yearly	Daily		
	No.	Em-	Days	(	Compen-	Compen-	Acc	idents
CLASS	plo	yes	Worked		sation	sation	Killed	Injured
General officers		5		\$	1,500.00			• •
General office clerks		1			750.00	* * 0 0	• •	• •
Enginemen		1			865.60	\$ 3.30	• •	• •
Firemen		1			576.40	2.20	0 0	
Other trainmen		1			835.00	2.00	• •	0 0
Other shopmen		2			279.50		• •	• •
Other trackmen		5			1,651.97	1.75	• •	• •
							poten	
Totals		16	* * * * *	\$	6,458.47	\$ 2.31 1	4	

#### COLORADO MIDLAND RAILROAD

		Total	Total	Average		
		No.	Yearly	Daily		
	No. Em-	Days	Compen-	Compen-	Acc	idents
CLASS	ployes	Worked	sation	sation	Killed	Injured
General officers	12	4,635	\$ 40,683.12	\$ 8.77	• •	• •
Other officers	27	8,922	39, 241.64	4.39	• •	• •
General office clerks	59	23, 462	53, 567. 69	2.24	• •	••
Station agents	25	8,668	24,171.93	2.79	• •	• •
Other station men	15	5,438	11,407.94	2.10	• •	• •
Enginemen	47	15, 288	114,058.16	7.46		• •
Firemen	47	16,037	78,313.22	4.88	• •	• •
C'onductors	30	9,134	58,804.19	6.44	• •	••
Other trainmen	53	15,891	75,915.81	4.78	• •	• •
Machinists	48	13,416	44,188.04	3.29	0 0	••
Carpenters	43	14,732	46,930.61	3.19	• •	• •
Other shopmen	210	60,403	170,247.03	2.82		••
Section foremen	46	16,972	36,164.80	2.13	• •	• •
Other trackmen	193	45,302	76,605.64	1.69		
Crossing and watchme	n 9	2,828	5,510.29	1.95		• •
Telegraphers	32	12,081	31,568.86	2.61	• •	• •
All other employes	52	15,828	31,403.97	1.98	• •	• •
					-	_
Totals	948	289,037	\$ 939,782.94	\$ 3,73%	4	103

#### CRYSTAL RIVER RAILROAD

		Total	Total	Average		
		No.	Yearly	Daily		
N	o. Em-	Days	Compen-	Compen-	Acci	dents
CLASS	ployes	Worked	sation	sation	Killed	Injured
General officers	. 9	2,817	\$ 342.00	\$12.00	• •	
General office clerks	. 16	4,992	1,458.00		• •	• •
Station agents		153	625.00	4.08		• •
Enginemen	. 1	285	1,159.54	4.07		• •
Firemen	. 1	267	724.50	2.71		
Conductors	. 1	272	978.07	3.60		
Other trainmen	. 1	255	672.32	2.64		• •
Section foremen	. 1	374	918.75	2.46		
Other trackmen	. 9	1,255	2,326.68	1.85		• •
All other laborers	. 1	247	487.40	1.97	• •	
					-	
Totals	. 40	10,917	\$ 9,692,26	\$ 2.379		

## COLORADO SOUTHEASTERN RAILROAD

27	77	Total No.	Total Yearly	Average Daily	A
	. Em-	Days Worked	Compen- sation	Compen- sation	Accidents Killed Injured
General officers	8	2,504	\$ 11,160.00	\$ 4.45	
Other officers	1	313	2,700.00	8.62	• • • •
General office clerks	4	1,252	5,261.61	4.20	
Station agents	1	313	1,373.23	4.38	• •
Other station men	2	626	1,904.52	3.04	
Enginemen	2	622	3,672.54	5.90	• •
Firemen	2	622	2,353.35	3.78	
Conductors	2	622	3,601.56	5.79	• •
Other trainmen	6	1,712	6,071.38	3.54	
Machinists	1	318	1,447.76	4.55	• •
Carpenters	1	24	82.85	3.45	
Other shopmen	3	973	3, 296. 25	3.38	• •
Section foremen	1	313	1,200.00	3.83	
Other trackmen	10	2, 426	3,842.43	1.58	*
Telegraph operators	1	290	885.21	3.05	••
Totals	45	12,930	\$ 48,852.69	\$ 4.233/4	

#### COLORADO & SOUTHERN RAILROAD

		Total	Total	Average		
		No.	Yearly	Daily		
No	.Em-	Days	Compen-	Compen-	Acci	dents
CLASS	oyes	Worked	sation	sation	Killed	Injured
General officers	9	3,280	\$ 61,499.82	\$25.99		• •
Other officers	30	11,066	88,018.03	7.95		
General office clerks	299	105, 046	278,513.26	2.65		• •
Station agents	84	26,870	67, 179.10	2.50		
Other station men	329	121,738	265, 267, 30	2.18		
Enginemen	211	72, 738	355, 489.59	4.88	• •	
Firemen	240	72, 140	226,829.58	3.14		
Conductors	116	42,600	210, 422. 33	4.94		
Other trainmen	382	130,983	459,800.68	3.51	• •	
Machinists	289	77,952	248, 182.10	3.18		* *
Carpenters	123	46,994	128, 944.55	2.74	• •	
Other shopmen	457	150,068	390, 707. 94	2.60		• •
Section foremen	191	71,361	151,178.46	2.12	• •	• •
Other trackmen	856	323, 081	483,800.59	1.49		
Switch and crossing men	63	22,778	40,529.30	1.78	• •	• •
All other laborers	208	63, 743	145,798.66	2.29		
Totals	499	144, 244	\$ 306,880.80	\$ 2.13		• •

#### COLORADO & WYOMING RAILROAD

		Total	Total	Average		
		No.	Yearly	Daily		
Ne	Ein-	Days	Compen-	Compen-	Acci	dents
CLASS p	loyes	Worked	sation	sation	Killed	Injured
General officers	9	2,817	\$ 3,966.74	\$ 1.41	• •	• •
Other officers	7.	2, 295	14,700.00	6.41		
General office clerks	16	4,992	18, 795.56	3.77		
Station agents	6	2,196	5,664.00	2.58		
Other station men	9	3,119	6,686.89	2.14		
Enginemen	22	5,671	25, 419.23	4.48		
Firemen	17	5,552	15, 395.89	2.77		
Conductors	5	1,531	7, 349.76	4.80	• •	• •
Other trainmen	62	14,807	55,946.39	3.78		
Machinists	15	3,889	13,587.38	3.49		
Carpenters	15	3,393	9,734.44	2.87	• •	• •
Other shopmen	95	29, 477	67, 410.16	2.29		
Section foremen	11	3,869	8,874.29.	2.29		
Other trackmen	128	29, 123	50, 110.74	1.72		
Telegraphers	2	725	2,852.00	3.93		
All other employes	17	5,679	19,019.03	3.35		• •
Totals	436	117, 635	\$ 295, 592.50	\$ 3.251/2	3	21

#### DENVER, BOULDER & WESTERN RAILROAD

		Total	Total	Average		
		No.	Yearly	Daily		
	No. Em-	Days	Compen-	Compen-	Acci	dents
CLASS	ployes	Worked	sation	sation	Killed	Injured
General officers	3	1,098	\$ 9,000.00	\$ 8.20	• •	
Other officers	3	1,098	5,520.00	5.03		
General office clerks	1	366	900,00	2.46		
Station agents	3	976	1,840.65	1.89		
Enginemen	4	653	2,751.42	4.21		
Firemen	4	668	1,850.49	2.77	• •	
Conductors	4	631	2, 267.20	3.59		
Other trainmen	7	684	1,885.00	2.76		
Machinists	1	282	1,124.80	3.99		
Carpenters		185	350.45	1.90		
Other shopmen	3	891	2, 246.97	2.52	• •	• •

		Total	Total	Average		
		No.	Yearly	Daily		
No.	Em-	Days	Compen-	Compen-	Acc	idents
CLASS pl	oyes	Worked	sation	sation	Killed	Injured
Section foremen	6	1,573	3,179.39	2.02	• •	
Other trackmen	11	2, 203	3,521.60	1.60	• •	• •
Telegraph operators	2	652	1,227.02	1.88	• •	49.,
All other laborers	5	718	1,499.45	2.09	• •	• •
-			-			_
Totals	57	12,678	\$ 39,164.44	\$ 3,127		

# DENVER, LARAMIE & NORTHWESTERN RAILROAD

		Total	Total	Average		
		No.	Yearly	Daily		
	No. Em-	Days	Compen-	Compen-	Acci	dents
CLASS	ployes	Worked	sation	sation	Ķilled	Injured
General officers	2	1,430	\$ 14,006.14	\$ 9.80	• •	• •
Other officers	3	2,029	7, 267. 47	3.58		• •
General office clerks	9	4,420	9,530.60	2.16		
Station agents	4	1,392	2,907.00	2.09	* *	
Other station men	2	664	1, 372.36	2.06		• •
Enginemen	4	1,119	4,719.04	4.22		• •
Firemen	4	656	1,686.24	2.57		
C'onductors	3	1,105	3,869.78	3.50		
Other trainmen	1	617	1,413.50	2.29		
Machinists	7	1,757	5,524.88	3.14	0 0	• •
Carpenters	0	184	472.69	2.57		* *
Other shopmen	12	3,110	6,854.13	2.20		
Section foremen	5	1,873	3,746.23	2.00	• •	
Other trackmen	16	3,860	6, 431.39	1.66	• •	• •
Crossing and watchmer	1 5	1,671	3,193.35	1.91		
Telegraph operators	1	348	1,140.00	3.28		• •
All other employes	1	1,583	7,069.32	4.47		
Totals	79	27,818	\$ 81,204.12	\$ 3.20 2-3	3	

## DENVER, NORTHWESTERN & PACIFIC RAILROAD

		Total	Total	Average		
		No.	Yearly	Daily		
	No. Em-	Days	Compen-	Compen-	Acc	idents
CLASS	ployes	Worked	sation	sation	Killed	Injured
General officers	5	1,651	\$ 22,160.50	\$13.42		• •
Other officers	6	1,933	8,325.65	4.31	• •	
General office clerks	31	9,045	27, 187.99	3.02	• •	• •
Station agents	12	3, 634	9,856.52	2.71	• •	
Other station men	19	5,504	11,687.20	2.13		• •
Enginemen	34	11,084	55, 380.98	5.50		• •
Firemen	34	10, 216	39, 263.96	3.84		
Conductors	20	6,481	32, 834.34	5.07	• •	• •
Other trainmen	36	11,104	42,170.32	3.80		
Machinists	17	4, 461	14, 369.95	3.22		
Carpenters	26	4, 234	12,033.77	2.84		
Other shopmen	98	26, 126	63, 899.49	2.45	• •	• •
Section foremen	31	8, 195	18,826.65	2.30		• •
Other trackmen	258	45,756	71,581.57	1.57	• •	• •
Crossing and watchme	en 4	1,045	1,744.50	1.67	• •	• •
Telegraph operators	14	3, 430	10, 128.89	2.95	• •	• •
All other employes	54	23, 748	56, 476.39	2.38		• •
					_	
Totals	699	177, 647	\$ 497,923.77	\$ 3.71 2-3	3	

#### DENVER & RIO GRANDE RAILROAD

		Total	Total	Average		
		No.	Yearly '	Daily		
No	Ein-	Days	Compen-	Compen-	Acci	idents
CLASS p	loyes	Worked	sation	sation	Killed	Injured
General officers	20	7,300	\$ 138,573.50	\$18.98		• •
Other officers	27	9,855	81,005.36	8.22		
General office clerks	336	122,640	332,742.27	2.71		
Station agents	117	42,705	120,559.10	2.82	• •	• •
Other station men	505	184, 325	345, 127.52	1.87	• •	• •
Enginemen	312	113,880	660, 414.75	5.80	• •	• •
Firemen	319	116, 435	423, 364.33	3.64	• •	• •
C'onductors	176	64, 240	355,646.17	5.54	• •	• •

	Total	Total	Average		
	No.	Yearly	Daily		
No. Em-	Days	Compen-	Compen-	Acci	dents
CLASS ployes	Worked	sation	sation	Killed	Injured
Other trainmen 533	194,545	762, 639.87	3.92	• •	• •
Machinists 388	121,056	412,792.95	3.41		* *
Carpenters 352	109,824	302,895.41	2.76	• •	• •
Other shopmen	430,560	1,171,366.37	2.72	• •	• •
Section foremen 261	95, 265	193, 464.89	2.03	• •	• •
Other trackmen1,478	461,136	714, 895.01	1.55		• •
Crossing and watchmen 36	13,140	20,602.52	1.57	• •	
Telegraph operators 131	47,815	147,041.98	3.08	• •	• •
All other employes1,034	377, 410	774, 362.19	2.05		0 0
,				_	
Totals	2,512,131	\$6,957,494.19	\$ 4.271/2		

# RIO GRANDE SOUTHERN RAILROAD

		Total	Total	Average		
		No.	Yearly	Daily		
	No. Em-	Days	Compen-	Compen-	Accid	ents
CLASS	ployes	Worked	sation	sation	Killed I	injured
General officers	13	2,380	\$ 12,799.80	\$ 5.38		• •
Other officers	4	1,434	7,268.91	5.07		
General office clerks	5	1,755	4,144.20	2.36		• •
Station agents	8	2,933	7, 289.78	2.49	• •	• •
Other station men	S	2, 433	5,138.22	2.11	• •	• •
Enginemen	19	7,509	35, 867.28	4.74	• •	
Firemen	19	7,614	21,693.97	2.85		0 0
Conductors	10	3,490	20,641.91	5.91		
Other trainmen	16	5,894	23, 147.56	3.93	0	
Machinists	6	1,614	6,940.20	4.30		
Carpenters	1	273	808.54	2.96		
Other shopmen	99 99	11, 245	26,601.24	2.37	• •	
Section foremen	27	8,947	18,717.58	2.09		
Other trackmen	229	52,527	87, 252.59	1.66		
Telegraph operators	2	\$33	3,380.32	4.03		
All other employes	40	14, 205	41,239.07	2.90	• •	
	Mark Street, and					
Totals	440	125,146	\$ 322,931.17	\$ 3.451/2		

#### FLORENCE & CRIPPLE CREEK RAILROAD

No	. Em-	Total No. Days	Total Yearly Compen-	Average Daily Compen-	Λ 00	idents
	oyes	Worked	sation	sation		Injured
General officers	8	2, 455	\$ 21,719.36	\$ 8.85	••	
Other officers	4 .	1,200	4,582.79	3.82	• •	• •
General office clerks	25	9,784	25, 258.30	2.58		••
Station agents	7	1,892	5,522.53	2.91	••	
Other station men	3	1,048	2,406.36	2.30		
Enginemen	25	5, 036	29, 363.35	5.83	••	• •
Firemen	28	4,962	19,392.06	3.93	• •	• •
Conductors	27	5, 410	25,138.87	4.65	• •	
Other trainmen	48	8,870	34, 127. 24	3.85	• •	• •
Machinists	15	2,103	8,233.10	3.91	••	• •
Carpenters	23	6, 289	17,930.19	2.86	• •	
Other shopmen	44	8,124	21, 632. 64	2.66	• •	• •
Section foremen	23	5,827	13,098.32	2.25	• •	
Other trackmen	181	27,028	44,057.70	1.63	• •	••
Crossing and watchmen	12	1,236	12,694.72	2.18	• •	••
Telegraph operators	15	4,871	13,892.90	2.85	• •	••
All other employes	76	17,760	44,384.41	2.50	• •	.;
Totals	554	113, 895	\$ 333,434.84	\$ 3.501/3		

# GREAT WESTERN RAILWAY

		Total	Total	Average		
		No.	Yearly	Daily		
I	No. Em-	Days	Compen-	Compen-	Acc	idents
	ployes	Worked	sation	sation	Killed	Injured
General officers	2	732	\$ 10,000.00	\$13.66	• •	• •
Other officers	2	732	3,900.00	5.33		••
General office clerks	3	1,098	3,760.00	3.42	••	
Station agents	6	2, 237	5,150.32	2.30	••	• •
Other station men	2	762	505.00	.66	• •	• •
Enginemen	2	970	2,543.97	2.62	••	••
Conductors	2	854	3,093.11	3.60	• •	• •
Other trainmen	4	2, 017	5,057.85	2.51	• •	• •
Machinists	3	448	1,116.56	2.49	• •	••
Carpenters	5	751	1,969.35	2.62	• •	• •
Other shopmen	9	1,092	2,344.69	2.15		• •
Section foremen	6	2,103	4,485.00	2.13	• •	• •
Other trackmen	43	8, 462	13,704.32	1.62	• •	• •
All other employes	3	235	548.64	2.33		• •
Totals	95	23,728	\$ 63, 271.08	\$ 3.43 2-3	3	••

## LARAMIE, HAHN'S PEAK & PACIFIC RAILROAD

		Total	Total	Average		
		No.	Yearly	Daily		
No	. Em-	Days	Compen-	Compen-	Acc	idents
CLASS pl	oyes	Worked	sation	sation	Killed	Injured
General officers	3	480	\$ 7,788.00	\$16.23	•	
Other officers				• • • •	• •	• •
General office clerks	1	100	330.00			• •
Station agents	6	1,380	2,764.90	3.33	• •	• •
Other station men	1	314	485.90	2.00	• •	• •
Enginemen	3	744	2,625.75	1.55	• •	• •
Firemen	4	930	2, 213.00	3.53	• •	• •
C'onductors	3	744	1,742.45	2.38	• •	
Other trainmen	2	633	1,313.95	2.34	• •	• •
Machinists	3	- 495	1,548.60	2.08		
Carpenters	6	658	1,917.30	3.13		
Other shopmen	5	1,306	3,542.85	2.91	• •	• •
Section foremen	8	1,574	3, 295.40	2.71	* *	
Other trackmen	66	9, 215	15,731.20	2.09		4.
Totals	111	\$18,573	\$ 45,299.30	\$ 3.53 2-3	3	

#### MANITOU & PIKE'S PEAK RAILROAD

		Total	Total	Average		
		No.	Yearly	Daily		
	No. Em-	Days	Compen-	Compen-	Accio	lents
CLASS	ployes	Worked	sation	sation	Killèd	Injured
General officers	2	732	\$ 11,000.00	\$15.03	• •	
General office clerks	1	366	2,400.00	6.56		
Station agents	1	166	409.45	2.47	• •	
Other station men	1	152	269.35	1.77	• •	
Enginemen	2	630	3, 147.50	5.00		• •
Firemen	2	632	1,894.50	3.00		
Conductors	2	427	1,425.€0	3.34	• •	• •
Other trainmen	2	332	930.75	2.80		• •
Machinists	1	366	1,900.00	5.19	• •	• •
Carpenters	1	236	1,129.90	4.79		
Other shopmen	18	4,156	9,540.40	2.30		
Section foremen	2	385	924.05	2.40		• •
Other trackmen	19	3,540	6,349.15	1.79		
All other employes	2	917	2,841.80	3.10		• •
Totals	56	13,037	\$ 44,162.45	\$ 4.25 1-8	3	

#### MIDLAND TERMINAL RAILROAD

	4.	Total	Total	Average		
		No.	Yearly	Daily		
	No. Em-	Days	Compen-	Compen-	Acc	idents
CLASS	ployes	Worked	sation	sation	Killed	Injured
General officers	2	473	\$ 2,863.96	\$ 6.05		• •
Other officers	1	220	684.88	3.11	• •	• •
General office clerks	6	1,941	3,424.47	.1.77	• •	• •
Station agents	3	990	3, 179. 50	3.21	•	
Other station men	6	1,506	3, 979.80	2.64		
Enginemen	9	1, 306	7,634.63	5.85		
Firemen	7	1,276	5,046.46	3.95	• •	• •
Conductors	5	1, 234	6, 126.23	4.96	• •	
Other trainmen	12	2, 341	8,096.97	3.46	• •	
Machinists	1	260	992.45	3.82	• •	
Carpenters	2	711	2,105.04	2.96		
Other shopmen	2	927	2,464.40	2.66		
Section foremen	6	2,048	4, 398.50	2.15	• •	• •
Other trackmen	37	7,104	11,754.63	1.65	• •	• •
Crossing and watchm	en 1	103	174.83	1.70	• •	
Telegraphers	3	925	2,110.50	2.28		
All other employes	14	3, 593	8,022.38	2.23 1-	3	
	-				_	_
Totals	117	26, 958	\$ 73,060.13	\$ 3.20 1-	3	

#### MISSOURI PACIFIC RAILROAD

		Total		Total	Average		
		No.		Yearly	Daily		
No	. Em-	Days	(	Compen-	Compen-	Acci	idents
CLASS pl	oyes	Worked		sation	sation	Killed	Injured
General officers	81	1,054	\$	12,956.54	\$12.29		
Other officers	205	2, 199		10,777.74	4.90		
General office clerks1	, 189	11, 178		27, 263.14	2.44		
Station agents	11	3,994		10,181.00	2.55	• •	
Other station men	21	7,013		18, 140, 35	2.59		• •
Enginemen	24	8, 255		38,900.10	4.71		
Firemen	26	7,911		26, 163.20	3.31		
Conductors	20	5,614		25, 147.50	4.48	• •	•
Other trainmen	75	16,316		51,520.36	3.15		

**	Total	Total	Average		
	No.	Yearly	Daily		
No. Em	- Days	Compen-	Compen-	Acci	idents
CLASS ployes	Worked	sation	sation	Killed	Injured
Machinists 3	1,910	8, 158. 75	4.27	• •	
Carpenters 6	4,482	10, 392.15	2.32		
Other shopmen 92	23, 404	55,465.10	2.37		
Section foremen 52	10,885	21, 254.40	1.95		
Other trackmen 451	41,092	62, 328.45	1.51		
Crossing and watching 2	653	1,185.95	1.82		• •
Telegraph operators 38	4,679	12,798.95	2.74		
All other employes 504	40,848	99,784.93	2.44		
				re-re-d)	
Totals3,100	191, 517	\$ 492,418.51	\$ 3.52	1	35

# SAN LUIS & SOUTHERN RAILROAD

		Total	Total	Average		
		No.	Yearly	Daily		
	No. Em-	Days	Compen-	Compen-	Acci	dents
CLASS	ployes	Worked	sation	sation	Killed	Injured
General officers	5	1,647	\$ 2,634.96	\$ 1.60		
Other officers	1	366	300.00	.82		
General office clerks	8	2, 549	2, 561.29	1.00		
Station agents	3	1,098	2,706.00	2.46		
Enginemen	1	412	1,991.93	4.83		
Firemen	1	412	1, 249.03	3.03		
Conductors	1	412	1,969.73	4.78		
Other trainmen	1	412	1, 363.53	3.31		
Machinists	1	101	549.16	5.43		
Carpenters	1	31	111.10	3.58		
Other shopmen	2	744	1,988.34	2.67		
Section foremen	1	366	720.00	1.97		
Other trackmen	2	432	687.35	1.59		
All other employes	1	320	921.21	2.88		
					*******	_
Totals	29	9, 302	\$ 19,653.63	\$ 2.85 5-1	4	

# UINTAH RAILROAD

		Total	Total	Average	
		No.	Yearly	Daily	
	No. Em-	Days	Compen-	Compen-	Accidents
CLASS	ployes	Worked	sation	sation	Killed Injured
General officers	3	1,098	\$ 8,320.00	\$ 7.57	
Other offices	2	732	5,400.00	7.38	••
General office clerks	3	1,098	3,320.00	3.02	• •
Station agents	3	1, 143	3,767.76	3.30	
Other station men	25	9,116	18,990.46	2.08	
Enginemen	5	1,925	9,627.50	5.00	• •
Firemen	6	1,908	6,199.72	3.25	
Conductors	5	1,780	7,512.68	4.22	
Other trainmen	6	1,109	3,355.59	3.02	••
Machinists	3	1,086	4,780.00	4.40	
Carpenters	10	3,566	12,460.49	3.49	
Other shopmen	10	4,366	13, 222.74	3.03	• •
Section men, foremen	8	3,062	7,484.76	2.44	••
Other trackmen	38	19,027	35, 908. 93	1.89	
Telegraph operators	2	732	1,980.00	2.70	
All other employes	59	30,110	74,645.94	2.48	
Totals	288	81,858	\$ 216,976.57	$3.70\frac{1}{2}$	

#### UNION PACIFIC RAILROAD

		Total	Total	Average		
		No.	Yearly	Daily		
1	No. Em-	Days	Compen-	Compen-	Acci	dents
CLASS	ployes	Worked	sation	sation	Killed	Injured
General officers	16	5,689	\$ -38,989.16	6.85	• •	
General office clerks	45	18,442	45, 916. 49	2.49		
Station agents	49	15,613	32, 571.59	2.09		
Other station men	140	52, 180	102, 171.62	1.96		
Enginemen	91		193,919.51			
Firemen	88		119, 087, 96			• •
Conductors	57		118,623.74			
Other trainmen	161		218, 502, 69			
Machinists	63		80, 352.60			
Carpenters	64		36,650.06			
Other shopmen	331		288,573.52			• •

		Total	Total	Average		
		No.	Yearly	Daily		
	No. Em-	Days	Compen-	Compen-	Acc	idents
CLASS	ployes	Worked	sation	sation	Killed	Injured
Section foremen	85	30,522	68,060.65	2.23	• •	• •
Other trackmen	503	150, 332	225, 193. 25	1.50		• •
Crossing and watchm	nen 21	8, 377	14,066.45	1.68		
Telegraph operators	72	28,403	71,856.16	2.53		
All other employes	466	185, 749	402,637.08	2.17		
					demonstra	_
Totals	2,252	495, 307	\$2,057,172.53	2.61	15	57

#### DENVER UNION DEPOT & RAILROAD COMPANY

		Total	Total	Average		
		No.	Yearly	Daily		
N	o. Em-	Days	Compen-	Compen-	Acci	dents
CLASS	oloyes	Worked	sation	sation	Killed	Injured
General officers	. 2	732	\$ 3,100.00	4.37		
Other officers	. 2	732	3,600.00	4.92		• •
General office clerks	. 2	732	2,000.00	2.73		
Other station men	. 127	46, 482	99,641.65	2.17		• 1
Other trackmen	. 8	2,928	4,783.30	1.63		
Crossing and watchmen	. 12	4,392	10,383.60	2.36		
Totals	. 153	55,998	\$ 123,508.55	3.03		

#### PUEBLO UNION DEPOT RAILROAD COMPANY

		Total	Total	Average		
		No.	Yearly	Daily		
No	Em-	Days	Compen-	Compen-	Acc	idents
CLASS pl	oyes	Worked	sation	sation	Killed	Injured
General officers	5	300	\$ 800.00	2.666		
Other officers	1	360	2,400.00	6.666		
Other station men	39	12,720	30,620.00	2.407		
Carpenters	1	360	870.00	2.416		b b
Section men	1	360	720.00	2.00	0 0	
Other trackmen	1	360	600.00	1.666	• •	
Crossing and watchmen	4	1,440	3, 312.00	2.30		
All other employes	30	11, 100	13,723.11	1.236		
					_	graduate.
Totals	82	27,000	14, 116. 33	2,669		

#### RECAPITULATION

Total No.	Average No.	Average Y	early Average Daily	Total	Accidents
Employes	Days Worked	Compensa	tion Compensation	Killed	Injured
24, 669 499	222, 482	\$ 300.0	\$3.34½	93	1,224
	STREET SECURITY SEC				
25, 168	Per man,				
	90 days				

# CHAPTER IX

#### MINING STATISTICS AND MISCELLANEOUS

## COAL PRODUCTION, 1911-1912

(From Report of James Dalrymple, State Inspector of Coal Mines.)

The coal industry of Colorado for the two years just passed. as compared with that of 1909-1910, shows a decrease in production of 1,692,520 tons. The principal reason for this decrease was the abnormal demand for Colorado coal in 1910, during labor troubles in some of the other coal-producing states, and the adverse financial conditions in 1911. The production in 1911 was 10,127,595 short tons; in 1912 it was 11,016,948 short tons; making a total production for the biennial period of 21,214,543 short tons.

Our means of producing has grown much more rapidly than the demand. I do not anticipate any material increase in the production in the near future, unless new manufacturing industries start up, either in Colorado or some of the states adjoining us on the east.

#### NUMBER EMPLOYED

In 1911 there were 14,315.2 people employed in and around the coal mines; in 1912 there were 13,980.6.

#### NEW MINES AND OLD MINES OPENED

During the biennial period ten new mines were opened and sixteen old mines reopened, and considerable improvements were made in some of the older mines.

#### MINES CLOSED OR ABANDONED

In the two years nineteen mines were abandoned.

#### FATALITIES

In 1911 ninety-one (91) lives were lost, and two deaths occurred from natural causes. Three hundred and five (305) people were injured. One mine disaster occurred—the dust explosion at the Cokedale mine, where seventeen (17) men lost their lives.

In 1912 ninety-eight (98) lives were lost and three hundred and fifty-six (356) persons were injured. One mine disaster

occurred—the gas explosion at the Hastings mine, where twelve (12) men met their death.

#### AVOIDABLE ACCIDENTS

On January 1, 1913, I requested the deputy inspectors, while investigating fatal accidents, to form an opinion, based upon their own observations, as to whether or not the accidents were avoidable. In going over the reports of fatalities made by the deputies and myself, our opinion is that over 50 per cent of all the fatal accidents were avoidable. This is especially so with the accidents from falls of rock and coal.

In the majority of accidents the deceased or injured person is held responsible, because of neglect on his part. I do not agree with this, because I believe incompetence, and not negligence, is the cause, and the person who is so incompetent that he knows practically nothing about the business in which he is engaged, and is unable to understand what is being said to him by those in charge, should not be held responsible for any accident to himself or others through his actions.

The responsibility in preventing accidents is about equally divided betwen the official in charge and the individual worker. And, in order to reduce accidents to the minimum, it is necessary that the official have the co-operation of the worker and that the worker have the co-operation of the official, so that the co-operation existing will be proportionate to the competency of all concerned. In any case, where the worker or the official is entirely incompetent no co-operation can exist.

This being the case, it is very desirable that competent men be employed as workers and officials, and this can be accomplished by compelling the incompetent workman to serve an apprenticeship under the supervision of a competent person, and by compelling the official to successfully pass a practical and technical examination.

#### PRODUCTION BY COUNTIES

County	1911	1912	Increase	Decrease
Boulder	936, 802	1,053,091	116, 289	
Delta	66,630	65, 218		1,412
El Paso	331,995	341,885	9,890	
Fremont	623, 044	733, 188	110, 144	
Garfield	166,686	178, 456	11,770	
Gunnison	568, 294	559, 127		9,167
Huerfano	1, 728, 420	1,889,300	160,880	
Jackson	1,000	38, 799	37, 799	
Jefferson	935	83, 442	82, 507	
La' Plata	107, 236	121, 111	13,875	
Las Animas	4, 532, 664	4,770,292	237, 628	
Mesa	92,384	103, 476	11,092	
Montezuma	1,255			1, 255
Pitkin	102, 059	74, 182		27, 877
Rio Blanco	500		• • • • •	500
Routt	372, 315	441,002	68, 677	
Weld	495, 366	489, 379		5, 987
Mines not reporting, product es-				
timated	70, (E)O	<b>75,</b> 000	5,000	
			•	
Total tonnage	10,197,595	11,016,918		
Increase in 1912				

# METAL PRODUCTION, 1911-1912 From Report of Thomas R. Henahen, State Mine Commissioner

	1911	1912
Gold	\$19,042,731.70	\$18,691,577.26
Silver	3,921,414.75	5,023,960.75
Lead	2,925,396.51	3, 280, 702.62
Copper	1,146,135.46	1, 445, 416.44
Zine	5,696,187.77	8, 591, 623. 73
Tungsten	444,000.00	525,000.00
Uranium and vanadium	855,600.00	912, 312.50
Total	.\$34,031,466.19	\$38, 470, 593.30
Increase over production of 1911	, . ,	4, 301, 414, 61

There are two new camps in course of development—the Eagle County silver strike, and the reopening of the country contiguous to the old Summitville district in Rio Grande County. The rich gold and tellurium ores which have been uncovered in widely different sections down in the San Juan Mountains give optimistic strength to the mining industry for the coming year.

The recent discovery of ore at a depth of 1,600 feet in the Cripple Creek district is an added indication of the growing

production from the mines.

Mr. Henahen estimates the total production of precious metals in Colorado, from the date of the first discovery, at \$1,232,971,559. That is the recorded production, and he believes that millions of dollars more were shipped out of the state of which no record was kept.

# NUMBER ENGAGED IN MINING, MILLING, AND SMELTING— BY COUNTIES

County	1911	1912
Arapahoe		• • • •
Archuleta	12	13
Boulder	423	522
Chaffee	390	423
Clear Creek	843	861
Conejos	14	18
Costilla	15	19
Custer	163	197
Delta		
Denver	455	475
Dolores	93	158
Douglas	35	44
Eagle	112	215
El Paso	935	918
Fremont	70	105
Garfield	12	16
Gilpin	888	876
Grand	55	80
Gunnison	270	215
Hinsdale	98	114
Huerfano	37	68
Jefferson	65	67
Lake	2,555	2,770
La Plata	390	264

BUREAU OF LABOR STATISTICS	267
Larimer	21
Mesa	85
Mineral	232
Montezuma	113
Montrose	168
Ouray 684	687
Park	74
Pitkin	387
Pueblo*5,822	*5,850
Rio Blanco	24
Rio Grande	87
Routt 85	110
Saguache	101
San Juan	851
San Miguel	1,237
Summit	511
Teller	4,028
Totals	23, 004
*Includes employes of C. F. & I. plant and two smelters.	
EMPLOYES ABOVE AND UNDER GROUND	
Number of men engaged above ground	7,801
Number of men engaged under ground	15, 203

Total number engaged in mining, milling, and smelting.....21,809

23,004

# MINE ACCIDENTS

#### ACCIDENTS ABOVE GROUND

	1911		1912	
		Non-		Non-
Cause of Accident	Fatal	Fatal	Fatal	Fatal
Machinery accidents	. 3	11		2
Mill accidents		19	1	22
Smelter accidents				183
Overwinding cage or bucket		1		• •
Falling from gallows frame or staging		2	* *	2
Gravity tram	. 1	1	2	1
Tramming, coupling or dumping cars		11		4
Handling loose rock or ore				2
Falls in chute or bin, or caught with running ore		1		
Injured by windlass				2
Miscellaneous	. 1	5	<b>0 0</b>	7
Electricity	. 1	1	2	
Totals	. 6	52	5	225

## SHAFT ACCIDENTS

	19	11	1912	2
		Non-	1	Non-
Cause of Accident	Fatal	Fatal	Fatal F	Patal
Getting on or off cage or bucket in motion at static	n	1	1	
Falls from bucket or cage while being hoisted of	)r			
lowered	1	1	2	
Caught in shaft while being hoisted or lowered	1		3	2
Falls from ladder	1			• •
Struck by descending cage or bucket			2	
Pushing car into open shaft, going down with san	ie	1	1	
Falls of rock or earth in shaft			• •	1
Falling down shaft from level			v •	2
Material falling from overloaded bucket				3
Cable becoming detached, letting cage down shaft	1	2	2	2
Miscellaneous		7	• •	1
			-	
Totals	4	12	11	11

Prior to 1912 smelters did not report accidents to the Department of Mines.

# BUREAU OF LABOR STATISTICS

#### UNDERGROUND ACCIDENTS

	19	1911		1912	
		Non-		Non-	
Cause of Accident	Fatal	Fatal	Fatal	Fatal	
Falls of rock	14	85	16	90	
Falls of timber while timbering		3	a 0	7	
Falls from ladder			1	3	
Falls from staging while working	2	5	1	10	
Falls in chute, winze, upraise, or manway	3	10	1	4	
Caught in chute with running ore	. 1	2		4	
Injured by tram car	2	19	1	26	
Struck by flying rock or steel from hammer or pick.		2		5	
Struck with hammer, pick or tools		3		4	
Injured handling loose rock or ore	. 1	4		5	
Falls while carrying tools or material in mine			* *	1	
Suffocation, bad air, or powder smoke	5	1	5	2	
Operating machine drill		7		5	
Miscellaneous	. 3	15	1	20	
Electricity	. 1	1	1		
Totals	32	157	27	186	

#### EXPLOSIVES

	1911	1912	
	Non-		Non-
Cause of Accident Fata	l Fatal	Fatal	Fatal
Picking out missed shot	1		4
Drilled into hole that missed fire 1	7		5
Blast exploded while loading		1	
Remaining too long after lighting fuse	1	1	
Struck unexploded powder or caps with pick or shovel			
while cleaning away muck	3		
Hit with flying rock from blast, not being in place of			
safety	2		0 0
Explosion, cause unknown	2	2	1
Miscellaneous	10	* *	2
Totals	26	4	13
	****		
Grand total	217	47	435

#### COLORADO SCHOOL-TEACHERS

In our last biennial report, issued 1910, we went to considerable pains to gather the average wages paid teachers in Colorado. As there has been little, if any, change in their condition since that report was issued, we here reproduce it.

In order to secure these data, we prepared and sent to at least 3,700 teachers in Colorado schedules asking for information regarding their work, salary, living expenses, and other things connected with schools. About 1,200 were heard from, from

which answers the table presented was compiled.

The table shows that the teachers are among the poorest-paid workers in the state; and it shows plainly that any really strong, efficient, energetic man or woman can make a much better salary in almost any other field of activity, and therefore the best teachers are continually forsaking the schoolroom for better-paid positions elsewhere. And the schools—or, rather, the children—of Colorado are the losers thereby.

The school-teachers have at last awakened to their condition, and are making demands for a minimum wage and better recompense for their services. And there is no class of wage-earners

that has greater justice for its demands.

The remarks made by the teachers on the schedules returned were in many cases pitiful. They tell of hundreds and thousands of dollars spent in preparation for what they intended to be a life-work, and of the desire to give the best that was in them to this work; of the long hours of toil spent in the schoolroom and at home; of the many demands made upon their scanty salaries; and, almost invariably, say that their profession affords them but the barest living. Many say that the present will be their last year in the schoolroom, because they cannot exist on the salaries received.

We believe that the presentation of the submitted schedule has been of great assistance to the school-teachers; that it is partially responsible for the present agitation for justice for them; and we hope that it may be of service to this worthy set of workers, and assist them in getting the increase in salaries that their services to the community demand they should receive.

TABLE SHOWING MAXIMUM, MINIMUM, AND AVERAGE WAGES OF TEACHERS IN THE PUBLIC SCHOOLS OF COLORADO

	No. Teache	rs				Average
County	Replying	ng Maximum		Min	Salary	
Adams	17	\$ 80.00	1 school	\$40.00	2 schools	\$60.00
Arapahoe	10	95.00	1 school	40.00	2 schools	52.75
Archuleta	2	75.00	1 school	65.00	1 school	67.50
Baca	7	65.00	1 school	40.00	3 schools	47.14 2-7
Bent	16	140.00	1 school	50.00	2 schools	70.18 3-4
Boulder	102	277.00	1 sehool	40.00	1 school	77.263

No. Teachers					Average
County Replying	g Maxin	num	Min	imum	Salary
Chaffee 22	188.88	1 school	50.00	2 schools	77.50
Cheyenne 18	55.00	1 school	40.00	2 schools	45.27 2-9
Clear Creek 36	177.77 7-9	1 school	50.00	1 school	80.19
Conejos 16	166.65	1 school	40.00	2 schools	75.88
Costilla 3	80.00	1 school	60.00	1 school	76.66 2-3
Custer 3	60.00	2 schools	40.00	1 school	53.33 1-3
Delta 16	70.00	1 school	45.00	1 school	59.25
Denver101	300.00	1 school	50.00	3 schools	92.446
Douglas 13	70.00	1 school	40.00	2 schools	49.433
Eagle 10	100.00	2 schools	50.00	1 school	76.00
Elbert 25	80.00	1 school	35.00	1 school	48.80
El Paso 69	150.00	1 school	45.00	4 schools	70.85
Fremont 51	168.00	1 school	40.00	1 school	72.19
Garfield 16	80.00	1 school	50.00	5 schools	64.21 7-8
Gilpin 8	105.00	1 school	30.00	1 school	48.80
Grand 8	75.00	2 schools	40.00	2 schools	58.125
Gunnison 10	125.00	1 school	50.00	2 schools	55.50
Huerfano 21	120.00	1 school.	35.00	1 school	61.19
Jackson 3	90.00	1 school	55.00	1 school	70.00
Jefferson 66	166.66 2-3	1 school	50.00	7 schools	66.96
Kiowa 10	50.00	9 schools	46.00	1 school	49.60
Kit Carson 22	100.00	1 school	40.00	6 schools	45.228
Lake 10	125.00	1 school	60.00	1 school	89.07
La Plata 22	158.33	1 school	60.00	6 schools	74.52
Larimer 63	133.33 1-3	1 school	40.00	2 schools	76.54 4-7
Las Animas 32	110.00	1 school	50.00	1 school	72.93
Lincoln 19	80.00	1 school	40.00	7 schools	51.84
Logan 13	133.35	1 school	42.50	1 school	71.065
Mesa 51	100.00	1 school	60.00	7 schools	69.00
Montrose 16	100.00	1 school	50.00	2 schools	68.00
Montezuma 8	111.10	1 school	60.00	2 schools	67.95
Morgan 17	111.11	2 schools	50.00	4 schools	68.75
Ouray 12	90.00	1 school	60.00	2 schools	70.00
Park 10	110.00	2 schools	45.00	1 school	72.00
Phillips 13	65.00	1 school	40.00	5 schools	45.93
Pitkin 7	100.00	2 schools	50.00	1 school	75.00
Prowers 25	100.00	2 schools	30.00	1 school	61.20
Pueblo 38	388.88	1 school	45.00	2 schools	86.775
Rio Grande 13	150.00	i school	45.00	1 school	75.60

No. Teachers						Average
County	Replying	g Maxii	mum	Min	imum	Salary
Routt	8	100.00	2 schools	50.00	1 school	75.00
Saguache	3	75.00	1 school	60.00	2 schools	65.00
San Juan	6	166.66 2-3	1 school	70.00	2 schools	94.24
Sedgwick	12	133.33 1-3	1 school'	40.00	3 schools	62.95
Summit	10	136.85	1 school	65.00	1 school	83.43 1-2
Teller	47	137.50	1 school	54.00	4 schools	77.25
Washington	13	125.00	1 school	35.00	1 school	57.70
Weld	58	277.77 2-3	1 school	50.00	5 schools	79.00
Yuma	9	65.00	1 school	40.00	4 schools	47.50

# Inmates of State Prisons, County Jails and Reformatory Institutions

The law creating the department requires a report upon "the number, condition, and nature of the employment of the inmates of the state prison, county jails, and reformatory institutions, and to what extent their employment comes into competition with the labor of mechanics, artisans, and laborers outside of these institutions."

In this respect the labor of the inmates of these institutions does not come into competition with that of free labor, as the law of the state prohibits it, and the labor unions—if nobody else—have seen that this law should be obeyed.

Colorado is far in advance of many states in the humane and wise treatment of its convicts, the object being to reform the individual and make a good citizen of him, rather than that of brutalizing and degrading him. With this in view, convicts are put to the useful work of road-building—so essential in a state sparsely populated and covering such a large area of ground as does Colorado. The large expense of building good, serviceable roads through our mountain passes could scarcely be accomplished with free labor. The amount of taxes levied to make this possible would be far in excess of the power of the taxpayers of the state and of the localities where these roads have been, and are being, built, to pay. Therefore, the very best use that our convicts can be put to is that of improving the highways of our great state.

There has been but little opposition from labor unions or others to the convicts doing this work. It is generally recognized that, aside from the humanitarian feature of having the convicts do the work, these roads, because of their cost, would not be built at all if they had to be paid for by day labor. However, there should be some provision made to pay the convicts some small

wages when doing this work, so that they would have some funds to maintain themselves on while looking for work when their time of incarceration has expired. While doing this work, convicts are taken out in road gangs, live in tents, are well fed, require but a small number of guards, and seldom indeed make any effort to escape. Appreciating the confidence reposed in them and the kind treatment received, they take a healthy pride in their work, which lays the foundation for future good citizenship.

Warden Thomas J. Tynan, of the State Penitentiary, was, in compliance with the law establishing the Bureau of Statistics, communicated with for the information required in this report.

His answer follows:

"Colorado State Penitentiary, Canon City, Colo., "September 19, 1912.

Mr. Edwin V. Brake, Commissioner "Bureau of Statistics, "Denver, Colo.

"Dear Sir: Answering your letter of September 17, will state that our prison population is 775 males and ten females, making a total of 785. The nature of work required of them is farming, road-building, the manufacture of clothing and shoes for use only at this institution, stone work, wall-building, carpenter, cement and quarry work; all of which are confined strictly to the needs immediately upon the premises. When we have buildings to erect here, it is all done by the inmates.

"The female prisoners repair clothing, darn socks, and do

light work of that nature for the inmates of the institution.

"Trusting this is the information you are seeking, we are "Yours very truly,

> (Signed) "F. E. CRAWFORD, "Chief Clerk."

The same request for information necessary to make this report was sent to Warden Alexander T. Stewart, of the State Reformatory. His answer follows:

"Warden's Office, Colorado State Reformatory,

"Buena Vista, Colo., September 25, 1912.

"Hon. Edwin V. Brake, "State Labor Commissioner. "Denver, Colo.

"Dear Sir: Complying with your request of the 20th inst., I enclose herewith data regarding the previous employment of the inmates of this institution, together with nativity, ages, etc.

"Regarding the employment of the inmates of this institution, I will say that during the summer months a great majority are employed in the fields, the only exceptions being domestics, office help, etc.

"During the winter months they are employed in the tailor shop, laundry, shoe shop, school, manufacturing concrete blocks,

etc.

"All clothing and shoes worn by the inmates are made here at the institution.

"Our live stock requires the services of from ten to fifteen men the year around.

"Trusting this information will be of service to you, and assuring you that I will be glad to give you any further information at any time, I am, "Yours very truly,

(Signed) "ALEXANDER T. STEWART, "Warden."

# OCCUPATION OF INMATES PREVIOUS TO COMMITMENT

Laborer	10	Machinist 3
Farmer	3_	C'hauffeur 3
Fireman	3	Waiter 2
Tailor	3	Salesman 2
Sailor	2	Dishwasher 1
Miner	2	Cowboy 1
Bell hop	1	Clerk 1
Barber	1	Paper-ruler 1
Brakeman	1	Mattress-maker 1
Civil engineer	1	Baker 1
Ironworker	1	Furniture polisher 1
Candy-maker	1	Cook 1
Butcher	1	_
Steamfitter	2	Total 55
Teamster	5	

#### AGES OF INMATES

Age	No.	Λge	No.
16	1	21	4
17	4	25	1
18	8	31	1
19	13	35	1
20	6	39	1
21	2		
22	8	Total	55
23	5		

#### NATIVITY OF INMATES

,	Colorado	8	Arkansas	1
	Illinois	4	Mississippi	1
	Michigan	4	Tennessee	1
	New Jersey	3	Minnesota	- 1
	Massachusetts	3	Montana	1
	Wisconsin	3	Nebraska	1
	Texas	3	Wyoming	1
	New York	2	Oregon	1
	Iowa	2	Old Mexico	2
	Missouri	2	Italy	2
	Pennsylvania	2	Ireland	1
	Indiana	2	Denmark	1
	Kansas	2		_
	Georgia	1	Total	55

The inmates of the county jails of the state in 1911 (census taken June 30) was 487. At the same time there were confined in the reformatory 160, and in the penitentiary 766; a total of 1,413 prisoners confined in state and county institutions.

#### INSANE PERSONS

During 1911, 280 persons were adjudged insane, of whom 233 were committed to the state asylum at Pueblo, 109 were cared for in the various county hospitals, while forty-seven were cared for elsewhere; and sixty-two feeble-minded persons were cared for either in county or private institutions.

# REPORT ON AN INVESTIGATION OF THE HIGH COST OF LIVING

The Commercial Club (business men's association) of Indianapolis recently issued a committee's statement from that body as a result of a "high cost of living" investigation. The report covered a period of prices upon commodities from July 31 to October 2, 1912. A table was prepared from weekly reports of prices upon sixteen staple commodities from ten cities, including Indianapolis. Other tables accompany the report that are of vastly more importance than that of the specific prices for approximately two months of the investigation. These latter tables are evidently produced to charge the cause of the high prices somewhere else than against the commission and retail merchants, and naturally direct the charge against the depreciation of the value of gold.

To the wage-earner the table of two months' prices is of no importance. It is made favorable to the business men of Indianapolis, in that it schedules that city as the fourth lowest of the ten cities compared.

Indianapolis, Nashville, Dayton and Columbus are the four lowest-priced cities in the order named, with Dayton and Columbus, Ohio, as near the average. Detroit and Nashville are the extremes, the difference being  $33\frac{1}{3}$  per cent in favor of Nashville. However, to show the unreliability of the comparison, by eliminating the price of tomatoes, Detroit is but 2 per cent higher than Indianapolis, and but 18 per cent above Nashville. In fact, it would make Indianapolis third highest and change the relative standing of other cities in the column.

But the other tables are from reliable statistics and show to the wage-earner that he cannot expect much relief from the cry of "high cost of living," under the present monetary system.

The tables are as follows:

A.

				What Prices	3
				Would Be	Per Cent
Mercantile	~		Per Cent	if Gold	Changes
Commodity	Cost	Cost	Increase	Had Not	in
Groups J	uly 1, 1896	Jan. 1,1910	of Price	Cheapened	Value
Breadstuffs	0524	.1050	100	.0656	-25
Live stock	1855	.4010	116	.3506	-35
Provisions	. 1.3619	2.3577	73	1,4735	8
Fruits	1210	1695	40	.1059	-12
Hides and leather	8250	1.2850	55	.8031	3
Textiles	. 1,5799	2,7333	73	1.7083	8
Metals	3757	.6208	65	.3880	3
Coal and coke	0048	.0069	43	.0043	12
Oils	2082	.3728	79	. 2330	12
Naval stores	0402	. 0938	134	.0586	46
Builders' materials	0716	.0827	15	.0516	27
Chemicals and drugs.	6607	.5958	9	. 3723	_ 42
Miscellaneous	. ,2150	. 1067	68	.2511	18

В.

			251		What Prices	3
					Would Be	Per Cent
	Mercantile			Per Cent	if Gold	Changes
	Commodity	Cost	Cost	Increase	Had Not	in
	Groups	July 1, 1896	Jan. 1,1910	of Price	Cheapened	Value
Me	ss pork	8.25	24.50	127	15.3125	85
77.}	neat	64375	1.28	100	.80	25
Flo	our	3.25	5.40	66	3.375	3
Ве	ef (bbl.)	8.50	15.50	82	9.69	14
Но	gs	3.40	8.60	153	5.375	58
Ma	.ckerel	20.00	22.00	10	13.75	31
Cod	lfish	4.00	7.00 •	65	4.475	12
Coi	ffee		.08375	36	5.23	60
Co.	tton		.1610	116	10.06	36
We	ool		.90	87	.56	16
An	thracite	4.25	5.00	17	3.125	26
Bit	uminous	2.75	3.15	15	1.98	28
Bri	ck	5.25	5.50	4.7	3.44	24
Lir	ne		1.02	45	.64	S
Yel	low pine	17.00	26.00	53	16.25	4
Na	ils	2.80	2.25	25	1.41	49
Ве	eves (live)		.0875	59	.0547	θ

Adding to this charge against the depreciation of the value of gold the tightening in proprietorship of land, with its assured increase in value and flat values as the creation of watered stock in "frenzied" finance, for what relief has the wage-earner any hope?

Isn't it a most observable fact that it is low wages rather than high cost of living that brings distress to the wage-earner?

# CHAPTER X

# ASSESSORS' SCHEDULES

# COLORADO AGRICULTURAL AND GRAZING LANDS

(Assessors' Schedules, 1911)

	Agric	ultural	Gra	zing
County	Acres	Value	Acres	Value
Adams	164,546	\$2,571,530.00	344,089.63	\$ 566,545.00
Arapahoe	23,500	840,590.00	330, 345	599, 165.00
Archuleta				
Baca			335, 285	523, 882.00
Bent	39,047.19	798, 404.00	129,528.04	230, 103.00
Boulder	97, 034	2, 107, 625.00	136, 956	464,610.00
Chaffee	18,128	222, 420.00	58, 986	71,963.00
Cheyenne	.7			
Clear Creek	29, 472	74, 285.00		
Conejos	139, 362	1, 204, 213.00	145, 620	218, 230.00
Costilla	108,452	622, 514.48	156,723	188,067.60
Crowley	34,007.71	869, 471.00	59, 970.04	108, 119.00
Custer	6,548	53,970.00	94, 785	123,630.00
Delta	96, 932	2, 462, 470.00	70, 037	87,545.00
Dolores	765	4,710.00	5,726	7,157.00
Douglas	29, 227	131,840.00	340,233	597, 255.00
Eagle	20, 331	241,611.00	57,838	114,459.00
Elbert	40, 210	190, 201.00	734, 624	997, 603.00
El Paso	177, 407	978, 540.00	473, 247	709,870.00
Fremont	2, 690, 204	707, 190.00		130,509.00
Garfield	44, 285	815, 260.00	126, 649	214, 105.00
Grand	21,406	107,030.00	93, 476	93,476.00
Gunnison	28,046	228, 340.00	79,619	119,505.00
Hinsdale			10,420	17,202.00
Huerfano	17,892	175, 981.00	263, 720	331,163.00
Jackson			111, 221	139,027.00
Jefferson	60, 244	1,505,850.00	249,530	1,778,265.00
Kiowa	2,881	5,768.00	379, 398	474, 245.00
Kit Carson	30,000	53,400.00	202, 961	1,073,126.00
Lake			26, 601	91,312.60

	Agric	ultural	Gra	zing
County	Acres	Value	Acres	Value
La Plata	37, 928	566, 335.00	162, 514	282, 465. 90
Larimer	115, 344	2,379,700.00	476, 261	605,055.00
Las Animas	48,310	369, 034.00	659,895	990,002.00
Lincoln			656, 038	988, 300.00
Logan	311, 547	1,870,885.00	186, 993	305, 385.00
Mesa	71,031	1,499,440.00	134,612	359, 430.00
Mineral	1,981	7,921.00	20, 990	33,578.00
Moffat	17,597	154,650.00	81, 383	163,855.00
Montezuma	57, 098	740,055.00	63, 417	82, 235.00
Montrose	78, 203	7,820,300.00	111,744	1,340,928.00
Morgan	65,094	1,046,890.00	119,535	230,085.00
Otero	98,541	2,441,525.00	104,978	180,140.00
Ouray	10,012	130,700.00	54,824	113, 369.00
Park	22, 561	157,927.00	165,126	177,801.00
Phillips	385, 741	928, 476.00		
Pitkin	14, 425. 75	213,055.00	35, 483.75	71,820.00
Prowers	101,566	8,633,110.00	228, 046	1,140,230.00
Pueblo	81,817	1,657,464.00	572,683	863, 151.00
Rio Blanco	19, 500	175,500.00	82,885	116,855.00
Rio Grande	69, 586	685, 445.00	91,737	175, 460.00
Routt	52,660	469,905.00	152, 439	331,790.00
San Miguel	11,218	89,980.00	64,728	101,160.00
San Juan		• • • • • • • •	200	560.00
Sedgwick	22, 167	268, 160.00	278,039	503,685.00
Summit	2,812	14,060.00	16,743.58	21,465.00
Teller	4, 438	22,350.00	89, 314	130,730.00
Washington	587, 472	4, 989, 534.00	500,000	1,500,000.00
Weld	287, 109	5,631,700.00	950, 551	2,192,160.00
Yuma	485, 963	1,195,020.00	146, 400	175, 680.00

# OIL AND PUBLIC LANDS, AND LAND VALUES

	Oil	Public	Values of	Land-Acre
County	Acres	Acres	Improved	Unimproved
Adams			\$50.00-\$100.00	\$6.00-\$10.00
Arapahoe			75.00- 175.00	40.00-100.00
Baca		1, 264, 715	5.00- 10.00	4.00- 10.00
Bent			85.00	60.00
Boulder	420			
Cheyenne			15.00	6.00

	Oil	Public	Values of 1	Land-Acre
County	Acres	Acres	Improved	Unimproved
Clear Creek			10.00- 15.00	2.50- 5.00
Conejos		106.15	25.00	5.00
Costilla			30.00	5.00
Crowley		• • • •	100.00	50.00
Custer			25.00	1.15
Delta			5(1,01) - 5(1),00	10.00- 50.00
Dolores			15.(9)	4.00
Douglas			12.00- 15.00	8.00
Eagle			100.00	3.75
El Paso			50.00	6.00
Fremont			52.13	6.00
Garfield			(0.00	20.00
Gunnison			30.00- 40.00	• • •
Hinsdale			1.50	1.50
Huerfano	• • • •		30.00	5.00
Jackson		• •	30.(4)	10.00
Jefferson			<b>5.0</b>	2.70
Kiowa			6.00	5.00
Kit Carson			10.00	5.00
La Plata			30,00	5.00
Las Animas			5.00- 100.00	3.00- 3.(H)
Lincoln			10.00	5.00
Logan			31.00	5.00- 8.00
Mesa			30,00-1,500,00	5.00- 15.00
Mineral			12.00	5.00
Moffat			10.00	5.00
Montezuma			45.00	10.00
Montrose			100,00	12.00
Morgan			50.00	15.00
Otero			](=)_(()	15.00
Ouray			12.30	1.35
Park			11.00	2.75
Phillips			_1)_()()	12.(n)
Prowers			N5.(8)	5.00
Pueblo			125.00	5.00
Rio Blanco	130		5i) [it]	10.00
Rio Grande			50.00	20.00
Routt		9-, 50	30.00- 60.00	5.00- 10.00

	Oil	Public	Values of	Land—Acre
County	Aeres	Acres	Improved	Unimproved
Saguache			50.00	10.00
San Miguel			8.60	1.56
Sedgwick		16,746	50.00	6.00
Summit			15.00- 30.00	3.00- 5.00
Teller			12.50	1.50
Washington		500,000	15.00	6.00
Weld			75.00	10.00

MINERAL LANDS

1911)	
Schedules,	
(Assessors'	

Improvements

				on Mining	Gross	Other Mineral	neral
	Coal	11	Metalliferous—	Claims—	Output-	Lands	70
County	Acres	Value	Value	Value	Value	Acres	Value
Boulder	5,083	\$175,485	\$608,580	\$354,550	•	3, 752	\$59,340
Chaffee	•	•	136,080	•	\$ 19,100	• • •	0 0 0
Clear Creek	•	•	653,900	•	130, 100	•	
Conejos	•	0 0 4 0	15,690	•	•	:	:
Costilla	•	•	16,210	•	•	1,581	15,810
Custer	•	•	34,320	48, 225	• • • •	• • • •	•
Delta	4, 253	97,060		•	•	•	:
Dolores	. 189	6,810	80,079	24, 222	26,800	185.43	1,854
Eagle	•	•	•	8,180	124,084	5, 338	89,162
Fremont	•	23, 992	7,945	•		•	0 0
Garfield	2,406	128, 585	- :	•	:	2,338	12,180
Grand	•	•	12,055	1,250	:	:	•
Gunnison	12, 255	652, 280	349, 335	139, 200	679, 480	:	•
Hinsdale	•	•	156,925	110, 125	52,860		•
Huerfano	1,641	155, 995	•	•	•	• • •	:

1,480		:	39, 740	4,635		0 0 0 0	82, 113	0 0 0 0	15,050	1, 403, 651		:					37, 370	975	4,160	77,010
	•	·	63			٠	30	٠	1	1,40		٠	٠	·			4.5			Į,
296	•		15, 086	853	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0	2,763		787		•	•					6,412	195	520	9, 878, 198
•		637, 754	55, 775	0 0 0		0 0 0 0	615, 232		0 0 0 0 0	Net	336, 340	71,965	•		•	0 0 0 0	3, 497, 639	1, 173, 305	607, 261	9, 996, 537
•	0 0 0 0	553,925	65, 590	•	•	•	97,164	•	•	177,535	217, 208	47,845	:	•	1,620	8, 733	375,700	380, 555	539,086	1, 235, 760
•	300	910,085	111, 275	:		:	0 0 0 0	•	•	278, 730		216, 290	:	17,890	16,340	65,050	228,810	691, 561	376, 781	1,743,080
19, 585	17, 965	•	254,990	•	1,667,790	52,580	•	53, 460	*	2,080	19,614	143, 055	:	:	807, 290	:	400	•	:	•
3,597	1,245	0 0 0	12,578		89,059	2,649	0 0 0	5,094		260	3, 269	10, 227	4,520		74,700		40			
Jackson	Jefferson	Lake	La Plata	Larimer	Las Animas	Mesa	Mineral	Moffat	Montezuma	Ouray	Park	Pitkin	Rio Blanco	Rio Grande	Routt	Saguache	San Miguel	San Juan	Summit	Teller

# MILES OF RAILROAD

(Assessors' Schedules, 1911)

-			Other R. R.
County	Miles	Value	Property
Adams	157.47	\$1, 403, 230	\$41,740
Arapahoe	89.50	762,770	30, 380
Bent	77.62	667, 940	22,940
Boulder	179.57	1, 178, 670	45,130
Chaffee	156.91	1, 384, 340	42,710
Cheyenne	63.13	832, 230	30,010
Clear Creek	41.77	265,330	7,185
Conejos	73.85	699, 360	2, 647
Costilla	95.25	722,947.50	327
Crowley	31.50	386, 840	
Custer	13.05	123,580	••••
Delta	69.75	660, 830	6,570
Denver	72.33	891, 410	
Dolores	17.70	91, 960	••••
Douglas	89, 69	1,062,510	42,280
Eagle	102.64	878,880	37,670
Elbert	83:18	971, 080	82,140
Fremont	144.10	1, 456, 610	
Garfield	162.91	1,519,650	61,880
Grand	76.68	427, 450	8,000
Gunnison	184.54	1,644,550	14,940
Hinsdale	9.45	89, 490	890
Huerfano	215.38	935, 730	22,900
Jefferson	106.24	790, 990	
Kiowa	87.50	1,074,570	
Kit Carson	59.96	74,800	25, 960
Lake	93.04	819,570	28,680
La Plata	120.60	1,016,830	47,755
Larimer	125.17	663, 150	32, 280
Las Animas	229.85	2, 791, 540	75, 280
Lincoln	72.85	966, 700	31,720
Logan	133.56		
Mesa	112.14	105,786	38, 920
Montezuma	62.80	326, 300	5,020
Montrose	52	496, 220	7,940
Otero	98.32	1, 134, 850	
Ouray	42.50	306, 410	3,530
Park	154.16	1, 282, 000	30,770

		Other R. R.
County Miles	Value	Property
Phillips 36,30	491,700	10,001
Pitkin \$6.58	673, 370	14,120
Prowers 80.42	694, 730	
Pueblo 269.78	2, 516, 520	96, 890
Rio Blanco 7.80	61, 430	1,180
Rio Grande 40.8	386, 370	9,960
Routt 57.5	320, 480	7,400
Saguache 106.6	1,009,500	
San Miguel 47.70	247, 840	
San Juan 42.10	196, 980	
Sedgwick 32.07	491,560	13, 340
Summit 68.8	611,807	200
Teller1,095.37	1, 237, 800	1,250
Washington 40.33	546, 920	16,760
Yuma 40.51	548,720	16,650

# MILES OF TELEGRAPH AND TELEPHONE LINES (Assessors' Schedules, 1911)

	Teleg	graph Lines	Telepho	one Lines
County	Miles	Value	Miles	Value
Adams	1,039.98	\$ 32, 250	1,668.71	\$ 31,650
Arapahoe	635.70	20, 480	1,324.92	27, 530
Baca			110	4, 460
Bent	442.32	13,960	992.84	21,790
Boulder	370.76	11,520	8,609.26	148, 160
Chaffee	631.54	19, 340	1,632.08	28, 090
Cheyenne		17,870	150	7,500
Clear Creek	3,340	1,040	1,296.93	22, 310
Conejos	231,61	7, 200	1,309.92	22, 540
Costilla	189.81	5, 890, 25	466.41	8,073.56
Crowley	239,64	7,860	583.71	10,040
Custer	50,60	1,570	225.84	3,890
Delta	182.68	.5,680	2,050.44	44,730
Denver	663.43	26, 450	97, 808.07	1, 683, 280
Dolores	35.00	1,090		
Douglas	1,761.45	54, 250	1,899.50	32, 690
Eagle	403.15	12,530	768.20	13,860
Elbert	563.08	17, 500	120.06	5,510
Fremont	867	<b>25,</b> 050	3,506.02	60, 340

	Teleg	raph Lines	Teleph	one Lines
County	Miles	Value	Miles	Value
Garfield	658.90	19,720	2, 292.58	55,510
Grand	13.60	27, 200	422.93	7,280
Gunnison	535.34	15,510	755.58	16, 130
Hinsdale	9.45	1,170	60.08	1,030
Huerfano	757.47	21,970	1,021.24	17,570
Jackson	207.68	5, 230		• • • • •
Jefferson	232.81	7, 250	2,831.42	48,720
Kiowa	350	10,880	17	290
Kit Carson	486.40	15, 120	59	1,900
Lake	423.23	12,860	2,185.54	37, 600
La Plata	278.82	8,670	1,632.98	28,400
Larimer	130.76	4,060	7, 232.65	124, 890
Las Animas	1,415.85	40,610	4,732.17	81, 440
Lincoln	627.70	19,510	177.68	3,050
Logan	557.28	• • • • •	1,923.10	
Mesa	575.77	17,890	- 5,784.87	99,650
Moffat		• • • • •	257	9,640
Montezuma	123	5,280;	263.67	7,360
Montrose	212	6,590	1, 362	23,440
Morgan	971.88	29, 390	1,581.03	27, 200
Otero	798.15	27,520	2,913.42	50, 140
Ouray	143.21	4, 450	738.66	12,710
Park	664.57	20,570	1,058.72	18, 220
Phillips		• • • • •	52	890
Pitkin	312.58	9, 480	648.48	11,770
Prowers	724.59	24,340	16,533	28,320
Pueblo	1,832.22	54, 080	10,668.24	188,070
Rio Blanco		• • • • •	383.32	8,430
Rio Grande	178	2,540	652.00	11,220
Routt		•	908.89	22, 390
Saguache	335.03	10,089	538.69	9, 270
San Miguel	111.20	3,460		10,810
San Juan	26.2	820	731.59	12,590
Sedgwick	374.91	11,470	458,47	9,590
Summit	138.41	4,300	764.90	13,160
Teller	465,98	13, 440	5, 079.06	87,990
Washington	418.79	13,030	188.36	3, 240
Yuma	405.10	12,590	136.50	7,580

# WORK ANIMALS

	Horses		Mules		Asses
County No	value	No	. Value	No.	Value
Adams 4,08	1 \$133, 315	211	\$ 8,790		\$ 92,980
Arapahce 3,88	135,370	69	3, 460		
Baca 4,10	8 74, 311	583	15, 345		
Bent 3,33	9 96, 990	345	11,567		
Boulder 5,82	3 189, 640	535	17, 395		
Chaffee	2 31,940	13	300	5	25
Cheyenne 3,31	0 79,880	280	780		
Clear Creek 41	2 11,510	5	125	43	430
Conejos 4,04	1 9,798	121,	3, 862		
Costilla 2, 39	9 69, 571	203	8,120	20	100
Crowley 2,61	4 86, 565	141	5,665		
Custer 1,36	3 35, 025	8	175		
Delta 4,03	128, 440	125	4,660	5	170
Denver 2,70	8 328, 030	268	15,850		
Dolores 39	10, 440	25	760	12	65
Douglas 2,51	5 87, 495	85	2,730		
Eagle 2,11	0 60,605	12	300	21	56
Elbert 3, 42	97,760	176	6,045		
Fremont 3, 64	0 88,100	178	5, 990		
Garfield 5,16	S 131,080	159	4, 170		
Grand 2,54	54,520	8	220	8	
Gunnison 2,66	8 57,510	133	4, 325	8	50
Hinsdale 30	8,331	99	3, 920	13	65
Huerfano 2,79	3 94, 987	297	11, 000	27	135
Jackson 3, 43	3 95, 995				
• <b>J</b> efferson 4,61	2 147,775	112	3,885		
Kiowa 3, 03	3 63, 538	268	8,695		
Kit Carson 8,99	239, 960	790	26,627	28	4, 425
Lake 85	4 26,815	26	230		
La Plata 4,05	3 125, 735	236	6,640	82	415
Larimer 9,69	5 295,515	598	24, 275		
Las Animas 9,43	2 239, 414	1, 207	43,660	12	600
Lincoln 4,75	7 129,855	309	10,385		
Logan 8,66	2	480		* * *	
Mesa 7,34	4 195,540	403	11, 105		
Mineral 20	5,478	5	188		
Moffat 5,32	2 185,570	15	595		
Montezuma 3,20	141,180	101	7, 170	101	505

	Н	lorses	7	Iules	A	sses
County	No.	Value	No.	Value	No.	Value
Montrose	. 6,602	166, 230.	138	3, 980	30	605
Morgan	. 5, 197	162, 595	427	14, 970	4	500
Otero	. 8, 731	291, 372	690	29, 490		• • • • • •
Ouray	. 1,477	33, 215	47	1,155	69	197
Park	. 1,910	36, 533	44	1, 255	75	317
Phillips	. 3,848	76, 040	169	3,380		
Pitkin	1,711	44, 125	27.	890		
Prowers	. 7,988	508, 710	1,053	78, 995		
Pueblo	8,965	348, 240	506	32,870		
Rio Blanco	. 4,145	95, 580	35	1,070		
Rio Grande	. 3, 190	120, 585	340	17,540		
Routt	5,978	202, 375	229	8, 530		
Saguache	. 3,710		143			
San Miguel	2,081	73,660	193	6,750	77	1,050
San Juan	136	3, 885	61	1,232	11	55
Sedgwick	. 2,813	72, 350	141	4, 405	• • •	
Summit	648	14, 790	4	80	17	85
Teller	1,605	38, 470	22	530		
Washington	8,132	682, 050	426	46, 800		• • • • • •
Yuma	11,827	295, 025	1,453	34,960	22	2, 485

# LIVE STOCK

					•		All	Other
	C	attle	Ş	Sheep	S	wine	An	imals
County	No.	Value	No.	Value	No.	Value	No.	Value
Adams	7,923	* * * * * * *	10,332	\$ 15,455.00	5,058	\$22,110		\$ 495
Arapahoe	8,779	\$146, 460	14, 360	21,615.00	1,092	7;150	31	1,005
Baca	15,050	130,060	56,950	85, 366.00	605	1,399	45	1,665
Bent	7,621	66, 532	200,063	154, 513.00	1,426	3,003		
Boulder	9,918	121, 555	3, 407	3, 455.00	1,068	4, 230	4,700	4,700
Chaffee	4, 563	39,700	50	70.00	548	2,270	891	4, 095
Cheyenne	13,111	139, 405	10,950	16, 425.00	330	2,745	41	4,270
Clear Creek	549	7,145						
Conejos	9, 148	91, 089	118, 277	121,089.00	1,627	6, 736		
Costilla	6, 149	61, 490	23, 513	35, 269, 50	902	2,706	46	1,556
Crowley	5, 491	50,548	21,650	28, 950.00	1,562	4,845		
Custer	8,038	64,635	1,545	3,860.00	349	1,200		
Delta	11, 264	126,950	17,536	35, 085, 00	554	1,695		

							All	Other
	C	attle	\$	Sheep	S	wine	An	imals
County	No.	Value	No.	Value	No.	Value	No.	Value
Denver	2,489	50,850					623	3,760
Dolores	6, 397	52,881	3, 350	5,025.00	22	90	• • • •	
Douglas	13,829	177, 135	1,015	1,525.00	732	3,720		
Eagle	11,662	121, 545	8,931	13, 182.00	179	974	1	150
Elbert	11,404	112,810	37, 573	53,085.00	275	1,360		
Fremont	12,654	120,865			372	2,475		
Garfield	18,852	166, 395	9,801	14,700.00	2,115	7, 105		6,820
Grand	10, 299	92,595	1,509	2,270.00	116	580		
Gunnison	22, 135	186, 285	40,991	81,820.00	136	635		
Hinsdale	2,282	18,906	59,506	88,504.00				
Huerfano	8,867	114, 123	40,741	61,111.00	203	810	457	467
Jackson	31,460	257, 526	2, 415	4,655.00	42	130	49	4, 115
Jefferson	9,390	122,750	762	950.00	1,317	6,125		
Kiowa	9,663	97, 245	26, 217	32,770.00	323	958	19	1,265
Kit Carson	18,878	175, 479	4,583	6,926.00	2,350	9,088	16	195
Lake	1, 155	21,075	18,957	26,920.00				
La Plata	12,005	112,745	57,074	108,465.00	1,738	6,573		
Larimer	19,334	183, 305	28, 304	20, 200.00	2,375	8,190	246	1,215
Las Animas	31,517	368, 394	259, 644	406,717.00	1,175	5,536		
Lincoln	20,001	165,515	66,000	100,385.00	602	1,765		
Logan	17,624		846		1, 355			
Mesa	19,354	181,650	18,078	27, 110.00	1,378	4,530		
Mineral	545	4,866	4,100	5, 350.00				
Moffat	34, 796	427, 552	10,800	21,600.00	258	1,245	200	2,000
Montezuma	12,077	159, 170	31, 374	59, 290.00	827	4,135	2	400
Montrose	16,540	140,597	54,050	96,850.00	1,637	5, 255		
Morgan	10, 219	113,026	23,026	25,410.00	3,047	8,410	4	500
Otero	18,679	181,736	57,771	73,035.00	4,831	15, 401	4,803	4,803
Ouray	5, 482	45, 991	9,068	18,136.00	173	695		
Park	12,902	103,988	18,579	27,868.00	20	100		
Phillips	6, 212	53, 386	32	32.00	1,454	4,362	35	2,690
Pitkin	5,401	48,915	19,815	22,020.00	441	1,595	15	90
Prowers	14,602	265, 050	215, 275	452,800.00	3,365	17, 915	360	30, 735
Pueblo	24,686	349, 975	17, 441	26,970.00	2,634	13,560		
Rio Blanco	30, 285	341, 477	18	36.00	242	730		
Rio Grande	6, 327	47,970	40,756	61, 340.00	3,706	10,325	23	
Routt	26,843	274, 705	62, 926	94, 430.00	1,028	5, 210	82	915
Saguache	20,611		60, 286		2,096		395	

							All	Other
	С	attle	S	heep	S	wine	An	imals
County	No.	Value	No.	Value	No.	Value	No.	Value
San Miguel	12, 323	110, 560	3,048	6,090.00	179	770	• • • •	• • • • •
San Juan	85	1, 275	1,425	2,138.00				• • • • • •
Sedgwick	4,952	45, 245	481	355.00	1,137	4,815	15	1,080
Summit	2,061	26, 819	1,400	2,100.00	10	59		
Teller	5, 643	55, 540	11	30.00	179	920	42	1,640
Washington	20, 431	537,600	13, 297	59,835.00	2,780	26,160		
Yuma	27,943	226, 200	2,064	2,085.00	7,872	23, 845		925

United States Census Figures, 1909, and Assessors Figures, 1911

The vast difference between the figures of the United States Census and those of the county assessors in the animals enumerated below, together with their valuation, as compiled by the State Tax Commission, is worthy of reproduction here.

### TABLE OF VALUATIONS

(This table gives the totals and valuation.)

Cattle—
Number reported by census
Number assessed by assessor
Difference
Value reported by census\$31,017,303
Value assessed by assessor
Percentage25.1
Horses—
Number reported by census
Number assessed by assessor
Difference
Value reported by census\$27,382,926
Value assessed by assessor
Percentage 27.4

Number reported by census.       14,739         Number assessed by assessor.       14,277         Difference       462         Value reported by census.       \$1,798,535         Value assessed by assessor.       524,659         Percentage       29.1         Asses—       Number reported by census.       3,233         Number assessed by assessor.       520         Difference       2,713         Value reported by census.       \$136,732         Value assessed by assessor.       9,668         Percentage       7         Swine—         Number reported by census.       179,204         Number assessed by assessor.       60,871         Difference       118,423         Value reported by census.       \$1,568,158         Value assessed by assessor.       233,678         Percentage       16.2         Sheep—         Number assessed by assessor.       1,463,861         Difference       None         Value reported by census.       \$6,853,187         Value assessed by assessor.       2,165,838         Percentage       31,6
Number assessed by assessor.       11,277         Difference       462         Value reported by census.       \$1,795,535         Value assessed by assessor.       524,559         Percentage       29.1         Asses—       Number reported by census.       3,233         Number assessed by assessor.       520         Difference       2,713         Value reported by census.       \$136,732         Value assessed by assessor.       9,668         Percentage       7         Swine—       179,204         Number reported by census.       179,204         Number assessed by assessor.       60,871         Difference       118,423         Value reported by census.       \$1,568,158         Value assessed by assessor.       253,678         Percentage       16.2         Sheep—       Number assessed by assessor.       1,463,861         Number reported by census.       1,463,861         Difference       None         Value reported by census.       \$6,853,157         Value assessed by assessor       2,165,533         Percentage       31.6
Difference         462           Value reported by census         \$1,795,535           Value assessed by assessor         524,559           Percentage         29.1           Asses—         Number reported by census         3,233           Number assessed by assessor         520           Difference         2,713           Value reported by census         \$ 136,732           Value assessed by assessor         9,668           Percentage         7           Swine—         Number reported by census         179,204           Number assessed by assessor         60,871           Difference         118,423           Value reported by census         \$ 1,568,158           Value assessed by assessor         253,678           Percentage         16.2           Sheep—         Number reported by census         1,426,214           Number assessed by assessor         1,463,861           Difference         None           Value reported by census         \$ 6,553,187           Value assessed by assessor         2,165,838           Percentage         31,6
Value reported by census.       \$1,798,535         Value assessed by assessor.       524,559         Percentage       29.1         Asses—
Value assessed by assessor       524,559         Percentage       29.1         Asses—       3,233         Number reported by census       520         Difference       2,713         Value reported by census       \$ 136,732         Value assessed by assessor       9,668         Percentage       7         Swine—       179,294         Number reported by census       179,294         Number assessed by assessor       60,871         Difference       118,423         Value reported by census       \$ 1,568,158         Value assessed by assessor       233,678         Percentage       16,2         Sheep—       Number reported by census       1,426,214         Number assessed by assessor       1,463,861         Difference       None         Value reported by census       \$ 6,853,187         Value assessed by assessor       2,165,838         Percentage       31.6
Percentage       29.1         Asses—       3,233         Number reported by census.       520         Difference       2,713         Value reported by census.       \$ 136,732         Value assessed by assessor.       9,668         Percentage       7         Swine—       179,294         Number reported by census.       179,294         Number assessed by assessor       60,871         Difference       118,423         Value reported by census.       \$ 1,568,158         Value assessed by assessor       233,678         Percentage       16.2         Sheep—       Number reported by census.       1,426,214         Number assessed by assessor       1,463,861         Difference       None         Value reported by census.       \$ 6,853,187         Value assessed by assessor       2,165,838         Percentage       31.6
Asses—       3,233         Number reported by census.       520         Difference       2,713         Value reported by census.       \$ 136,732         Value assessed by assessor.       9,668         Percentage       7         Swine—       179,294         Number reported by census.       179,294         Number assessed by assessor       60,871         Difference       118,423         Value reported by census.       \$ 1,568,158         Value assessed by assessor       233,678         Percentage       16.2         Sheep—       Number reported by census.       1,426,214         Number assessed by assessor       1,463,861         Difference       None         Value reported by census.       \$ 6,853,187         Value assessed by assessor       2,165,838         Percentage       31.6
Number reported by census.       3,233         Number assessed by assessor       520         Difference       2,713         Value reported by census.       \$ 136,732         Value assessed by assessor       9,668         Percentage       7         Swine—       179,294         Number reported by census.       118,423         Value reported by census.       \$ 1,568,158         Value assessed by assessor       253,678         Percentage       16.2         Sheep—       Number assessed by assessor       1,463,861         Difference       None         Value reported by census.       1,463,861         Difference       None         Value reported by census.       \$ 6,853,187         Value assessed by assessor       2,165,838         Percentage       31.6
Number assessed by assessor       520         Difference       2,713         Value reported by census       \$ 136,732         Value assessed by assessor       9,668         Percentage       7         Swine—       179,294         Number reported by census       60,871         Difference       118,423         Value reported by census       \$ 1,568,158         Value assessed by assessor       253,678         Percentage       16.2         Sheep—       Number reported by census       1,426,214         Number assessed by assessor       1,463,861         Difference       None         Value reported by census       \$ 6,853,187         Value assessed by assessor       2,165,838         Percentage       2,165,838         Percentage       31.6
Difference       2,713         Value reported by census       \$ 136,732         Value assessed by assessor       9,668         Percentage       7         Swine—       179,294         Number reported by census       60,871         Difference       118,423         Value reported by census       \$ 1,568,158         Value assessed by assessor       253,678         Percentage       16.2         Sheep—       Number reported by census       1,426,214         Number assessed by assessor       1,463,861         Difference       None         Value reported by census       \$ 6,853,187         Value assessed by assessor       2,165,838         Percentage       31.6
Value reported by census.       \$ 136,732         Value assessed by assessor.       9,608         Percentage       7         Swine—       179,294         Number reported by census.       60,871         Difference       118,423         Value reported by census.       \$ 1,568,158         Value assessed by assessor       233,678         Percentage       16.2         Sheep—       Number reported by census.       1,426,214         Number assessed by assessor       1,463,861         Difference       None         Value reported by census.       \$ 6,858,187         Value assessed by assessor       2,165,838         Percentage       31.6
Value assessed by assessor.       9,668         Percentage       7         Swine—       179,294         Number reported by census.       60,871         Difference       118,423         Value reported by census.       \$ 1,568,158         Value assessed by assessor.       253,678         Percentage       16.2         Sheep—         Number reported by census.       1,426,214         Number assessed by assessor.       1,463,861         Difference       None         Value reported by census.       \$ 6,858,187         Value assessed by assessor.       2,165,838         Percentage       31.6
Percentage       7         Swine—       179,294         Number reported by census       60,871         Difference       118,423         Value reported by census       \$ 1,568,158         Value assessed by assessor       253,678         Percentage       16.2         Sheep—         Number reported by census       1,426,214         Number assessed by assessor       1,463,861         Difference       None         Value reported by census       \$ 6,853,187         Value assessed by assessor       2,165,838         Percentage       31.6
Swine—       179, 294         Number reported by census.       60,871         Difference       118, 423         Value reported by census.       \$ 1,568, 158         Value assessed by assessor       253,678         Percentage       16.2         Sheep—         Number reported by census.       1,426,214         Number assessed by assessor       1,463,861         Difference       None         Value reported by census.       \$ 6,853,187         Value assessed by assessor       2,165,838         Percentage       31.6
Number reported by census.       179, 294         Number assessed by assessor       60,871         Difference       118, 423         Value reported by census.       \$ 1,568,158         Value assessed by assessor       253,678         Percentage       16.2         Sheep—         Number reported by census.       1,426,214         Number assessed by assessor       1,463,861         Difference       None         Value reported by census.       \$ 6,853,187         Value assessed by assessor       2,165,838         Percentage       31.6
Number assessed by assessor.       60,871         Difference       118,423         Value reported by census.       \$ 1,568,158         Value assessed by assessor.       253,678         Percentage       16.2         Sheep—       Number reported by census.       1,426,214         Number assessed by assessor.       1,463,861         Difference       None         Value reported by census.       \$ 6,853,187         Value assessed by assessor.       2,165,838         Percentage       31.6
Difference       118, 423         Value reported by census       \$ 1,568,158         Value assessed by assessor       253,678         Percentage       16.2         Sheep—       Number reported by census       1, 426, 214         Number assessed by assessor       1,463,861         Difference       None         Value reported by census       \$ 6,858,187         Value assessed by assessor       2,165,838         Percentage       31.6
Value reported by census. \$ 1,568,158  Value assessed by assessor. 253,678  Percentage 16.2  Sheep—  Number reported by census. 1,426,214  Number assessed by assessor. 1,463,861  Difference None  Value reported by census. \$ 6,856,187  Value assessed by assessor 2,165,838  Percentage 31.6
Value assessed by assessor. 253,678 Percentage 16.2  Sheep— Number reported by census. 1,426,214 Number assessed by assessor. 1,463,861 Difference None Value reported by census. \$6,853,187 Value assessed by assessor. 2,165,838 Percentage 31.6
Percentage 16.2  Sheep—  Number reported by census 1,426,214  Number assessed by assessor 1,463,861  Difference None  Value reported by census \$6,853,187  Value assessed by assessor 2,165,838  Percentage 31.6
Sheep—  Number reported by census. 1,426,214  Number assessed by assessor. 1,463,861  Difference None  Value reported by census. \$6,853,187  Value assessed by assessor. 2,165,838  Percentage 31.6
Number reported by census
Number reported by census
Number assessed by assessor
Difference
Value reported by census
Value assessed by assessor
Percentage
Goats—
Number reported by census
Number assessed by assessor
Difference
Value reported by census\$ 80,644
Value reported by assessor
Percentage

# Poultry-

•	
Number reported by census	1,721,445
Number assessed by assessor	None
Difference	None
Value reported by census	1, 012, 251
Value reported by assessor	None
Percentage	None
Bees—	
Number reported by census	71, 434
Number assessed by assessor	14,620
Difference	56,814
Value reported by census	308,608
Value reported by assessor	14,650
Percentage	4.7





